



# Parts & Maintenance Manual

## Cushman Turf Truckster

84043 – Perkins 403 Diesel Engine, Manual Transmission

84044 – Perkins 403 Diesel Engine, Manual Transmission, EC

898627 – Suzuki K6 Gas Engine, Manual Transmission

898628 – Suzuki K6 Gas Engine, Automatic Transmission

84052 – Suzuki K6 Gas Engine, 5 Speed Manual Transmission



*WARNING: If incorrectly used this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.*

**JACOBSEN**  
A Textron Company

# Table of Contents

<b>1</b>	<b>Safety</b>				
1.1	Operating Safety .....	4	6.9	Jump Starting .....	19
1.2	Important Safety Notes .....	5	6.10	Battery .....	20
<b>2</b>	<b>Standards and Publications</b>		6.11	Charging Battery .....	20
2.1	Standards and Publications .....	6	6.12	Hydraulic Hoses .....	21
<b>3</b>	<b>Vehicle Identification Numbers</b>		6.13	Hydraulic Reservoir and Filter .....	21
3.1	Vehicle Identification Number .....	7	6.14	Fuel .....	22
3.2	Engine Identification Numbers .....	7	6.15	Fuel System .....	22
<b>4</b>	<b>Specifications</b>		6.16	Tire Pressure .....	22
4.1	Product Identification .....	8	6.17	Tire Removal and Installation .....	23
4.2	Engine .....	8	6.18	Raising the vehicle .....	23
4.3	Vehicle .....	8	6.19	Towing the Vehicle .....	24
4.4	Gear Ratios .....	9	6.20	Governor Oil Level .....	24
4.5	Weights and Dimensions .....	9	6.21	Hydraulic Brakes .....	25
4.6	Accessories & Support Literature .....	9	6.22	Differential Fluid .....	26
<b>5</b>	<b>Adjustments</b>		6.23	Diesel Engine Manual Transmission .....	26
5.1	General .....	10	6.24	Gas Engine Manual Transmission .....	27
5.2	Engine Access .....	10	6.25	Gas Engine Automatic Transmission .....	27
5.3	Front Cowl Access .....	11	6.26	Electrical System .....	28
5.4	Access Panels .....	11	6.27	Dash Panel .....	28
5.5	Diesel Engine Alternator Belt .....	12	6.28	Headlight Replacement .....	29
5.6	Diesel Engine Hydraulic Pump Belt .....	12	6.29	Tail Light Replacement .....	29
5.7	Gas Engine Power Steering-Alternator Belt .....	12	6.30	EFI Diagnostic Check .....	30
5.8	Gas Engine Hydraulic Pump Belt .....	13	6.31	Care and Cleaning .....	31
5.9	Parking Brake Cable .....	13	6.32	Storage .....	31
5.10	Torque Specification .....	14	<b>7</b>	<b>Troubleshooting</b>	
<b>6</b>	<b>Maintenance</b>		7.1	General .....	32
6.1	General .....	15	<b>8</b>	<b>Maintenance &amp; Lubrication Charts</b>	
6.2	Engine .....	15	8.1	General .....	33
6.3	Engine Oil .....	16	8.2	Lubrication Chart .....	33
6.4	Power Steering Reservoir .....	17	8.3	Maintenance Charts .....	34
6.5	Muffler and Exhaust .....	17	<b>9</b>	<b>Notes</b>	
6.6	Engine Overheat Procedure .....	17	<b>10</b>	<b>Parts Catalog</b>	
6.7	Cooling System .....	18	10.1	Table Of Contents .....	37
6.8	Air Filter .....	19			

**This manual is designed for the Maintenance and Adjustment of this equipment.**

Use the maintenance and adjustment instructions included in this manual and the operating instructions included in the **Safety and Operation Manual** to service the machine.

The **Safety and Operation Manual** must be kept in the pouch on the back of the seat at all times for reference by the operator.

Copyright 2005, Textron Inc.

"All rights reserved, including the right to reproduce this material or portions thereof in any form."

Litho in U.S.A. 2-2006

# Suggested Stocking Guide

To Keep your Equipment fully operational and productive, maintain a stock of the more commonly used maintenance items. We have included part numbers for additional support materials and training aids. A more complete listing of accessories and attachments can be found in the Specifications Section.

## Service Parts

Qty.	Part No.	Description	Qty.	Part No.	Description
	842553	Diesel Engine Oil Filter		2701908	Gas Engine Oil Filter
	2208175	Diesel Engine Fuel Filter		2701898	Gas Engine Fuel Filter
	600997	Diesel Alternator-Power Steering Belt		4115406	Gas Alternator-Power Steering Belt
	841966	Diesel Hydraulic Pump Belt		4115404	Gas Governor-Hydraulic Pump Belt
	885249	Hydraulic Filter Element		840352	Air Filter Element (Gas and Diesel)
	4140040	Safety and Operation Manual		4140039	Parts and Maintenance Manual

## To Order Parts

1. Write your **full** name and **complete** address on the order.
2. Explain where and how to make shipment.
3. Give product number, name and serial number that is stamped on the name plate or serial plate of your product.
4. Order by the quantity desired, the part number, paint code, and description of the part as given in the parts list.
5. Send or bring the order to an authorized Jacobsen Dealer.
6. Inspect all shipments on receipt. If any parts are damaged or missing, file a claim with the carrier before accepting.
7. Do not return material without a letter of explanation, listing the parts being returned. Transportation charges must be prepaid.

**Use of other than Jacobsen authorized parts, excluding emission related components defined in the Emission Warranty, will void the warranty.**

## How To Use This Manual

### Abbreviations

**N/S** - Not serviced separately, can only be obtained by ordering main component or kit.

**AR** - Variable quantity or measurement is required to obtain correct adjustment.

**Symbols** such as **▲**, next to the item number, indicate that a note exists which contain additional information important in ordering that part.

### Indented Items

Bulleted items indicate component parts that are included as part of an assembly or another component. These parts can be ordered separately or as part of the main component.

Item	Part No.	Qty	Description	Serial Numbers/Notes
▲ 1	123456	1	Mount, Valve	Indicates a piece part
2	789012	1	Valve, Lift	Includes Items 2 and 3
3	345678	1	• Handle	Serviced part included with Item 2
4	N/S	1	• Seal Kit	Non serviced part included with Item 2
5	901234.6	1	Screw, 1/4-20 x 2" Hex Head	Indicates part 901234 painted Orange
5	901234.2	1	Screw, 1/4-20 x 2" Hex Head	Indicates part 901234 painted Green

# 1 SAFETY

## 1.1 OPERATING SAFETY

### **WARNING**

#### **EQUIPMENT OPERATED IMPROPERLY OR BY UNTRAINED PERSONNEL CAN BE DANGEROUS.**

Familiarize yourself with the location and proper use of all controls. Inexperienced operator's should receive instruction from someone familiar with the equipment before being allowed to operate the machine.

1. Safety is dependent upon the awareness, concern and prudence of those who operate or service the equipment. Never allow minors to operate any equipment.
2. It is your responsibility to read this manual and all publications associated with this equipment (Safety and operation manual, engine manual, accessories and attachments). If the operator can not read English it is the owner's responsibility to explain the material contained in this manual to them.
3. Learn the proper use of the machine, the location and purpose of all the controls and gauges before you operate the equipment. Working with unfamiliar equipment can lead to accidents.
4. Never allow anyone to operate or service the machine or its attachments without proper training and instructions; or while under the influence of alcohol or drugs.
5. Wear all the necessary protective clothing and personal safety devices to protect your head, eyes, ears hands and feet. Operate the machine only in daylight or in good artificial light.
6. Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job. Only use accessories and attachments approved by Jacobsen.
7. Stay alert for holes in the terrain and other hidden hazards.
8. Inspect the area where the equipment will be used. Pick up all the debris you can find before operating. Beware of overhead obstructions (low tree limbs, electrical wires, etc.) and also underground obstacles (sprinklers, pipes, tree roots, etc.) Enter a new area cautiously. Stay alert for hidden hazards.
9. Never allow anyone near the machine while in operation. The owner/operator can prevent and is responsible for injuries inflicted to themselves, to bystanders and damage to property.
10. Do not carry passengers. Keep bystanders and pets a safe distance away.
11. Never operate equipment that is not in perfect working order or is without decals, guards, shields or other protective devices securely fastened in place.
12. Never disconnect or bypass any switch.
13. Do not change the engine governor setting or overspeed the engine
14. Carbon monoxide in the exhaust fumes can be fatal when inhaled. Never operate the engine without proper ventilation or in an enclosed area.
15. Fuel is highly flammable, handle with care.
16. Keep the engine clean. Allow the engine to cool before storing and always remove the ignition key.
17. Place transmission in neutral, depress clutch and engage parking brake before starting the engine (motor). Start the engine only when sitting in operator's seat, never while standing beside the unit.
18. Equipment must comply with the latest federal, state, and local requirements when driven or transported on public roads. Watch out for traffic when crossing or operating on or near roads.
19. Local regulations may restrict the age of the operator.
20. Operate the machine up and down the face of the slopes (vertically), not across the face (horizontally).
21. To prevent tipping or loss of control, do not start or stop suddenly on slopes. Reduce speed when making sharp turns. Use caution when changing directions.
22. Always use the seat belt when operating vehicles equipped with a ROPS.  
*Never use a seat belt when operating vehicle without a ROPS.*
23. Keep legs, arms and body inside the seating compartment while the vehicle is in motion.
24. Always shift transmission to Neutral (Manual Transmission) or Park (Automatic Transmission) and engage parking brake before leaving the vehicle.

## 1.2 IMPORTANT SAFETY NOTES



*This safety alert symbol is used to alert you to potential hazards.*

**DANGER** - Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

**WARNING** - Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

**CAUTION** - Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury and property damage. It may also be used to alert against unsafe practices.

*For pictoral clarity, some illustrations in this manual may show shields, guards or plates open or removed. Under no circumstances should this equipment be operated without these devices securely fastened in place*

### WARNING

The Interlock system on this vehicle prevents the vehicle from starting unless the clutch pedal is depressed (Manual Transmission) or gear selector is in Park (P) or Neutral (N) (Automatic Transmission).

NEVER operate vehicle unless the Interlock system is working.

### WARNING

1. Before leaving the operator's position for any reason:
  - a. Remove foot from accelerator pedal.
  - b. Slow vehicle using service brake.
  - c. Depress clutch and shift transmission to neutral.
  - d. Engage parking brake.
  - e. Stop engine and remove the ignition key.
2. Keep hands, feet, and clothing away from moving parts. Wait for all movement to stop before you clean, adjust or service the machine.
3. Keep the area of operation clear of all bystanders and pets.
4. Never carry passengers, unless a seat is provided for them.

By following all instructions in this manual, you will prolong the life of your machine and maintain its maximum efficiency. Adjustments and maintenance should always be performed by a qualified technician.

If additional information or service is needed, contact your Authorized Jacobsen Dealer who is kept informed of the latest methods to service this equipment and can provide prompt and efficient service. **Use of other than original or authorized Jacobsen parts, excluding emission related components defined in the Emission Warranty, and Accessories will void the warranty.**

## **2 STANDARDS AND PUBLICATIONS**

---

### **2.1 STANDARDS AND PUBLICATIONS**

---

This product meets requirements of ANSI B56.8 and has been approved by the Factory Mutual Research Corporation to meet all Powered Industrial Truck portions (classification D or G) of the OSHA requirements (as stated in section 1910.178). Approved power trucks shall bear a label or some other identifying mark indicating approval by the testing laboratory. This product conforms to EC directives and amendment 89/392 & 91/368.

Users, operators and service persons should be familiar with the following standards and publications: (The material may be obtained from the address shown)

Factory Mutual Approval Standard:  
Class No's 7811 & 7813; Gasoline or Diesel  
Powered Trucks, Types G, GS, D or DS.

Factory Mutual Research Corp.  
1151 Boston-Providence Highway  
Norwood, Massachusetts 02062 U.S.A.

National Fire Protection Association:  
ANSI/NFPA #505; Powered Industrial Trucks

National Fire Prevention Association  
Batterymarch Park  
Quincy, Massachusetts 02269 U.S.A.

Personal Burden Carriers:  
ANSI/ASME B56.8

American National Standards Institute, Inc.  
1430 Broadway  
New York, New York 10018 U.S.A.

Internal Combustion Engine Powered Industrial Trucks:  
ANSI/UL 558

American National Standards Institute, Inc.  
1430 Broadway  
New York, New York 10018 U.S.A.

OR

Underwriters Laboratories Inc.  
333 Pfingsten Road  
Northbrook, Illinois 60062 U.S.A.

Flammable and Combustible Liquids Code:  
ANSI/NFPA 30

American National Standards Institute, Inc.  
1430 Broadway  
New York, New York 10018 U.S.A.

OR

National Fire Prevention Association  
Batterymarch Park  
Quincy, Massachusetts 02269 U.S.A.

## 3.1 VEHICLE IDENTIFICATION NUMBER

The Vehicle Identification Number (VIN), consisting of the model number, date code and serial number are all printed on the Nameplate/Identification Decal attached to the cross member under the dash.

The serial number is also stamped on the cross member. It is located to the left of the Nameplate/Identification Decal.

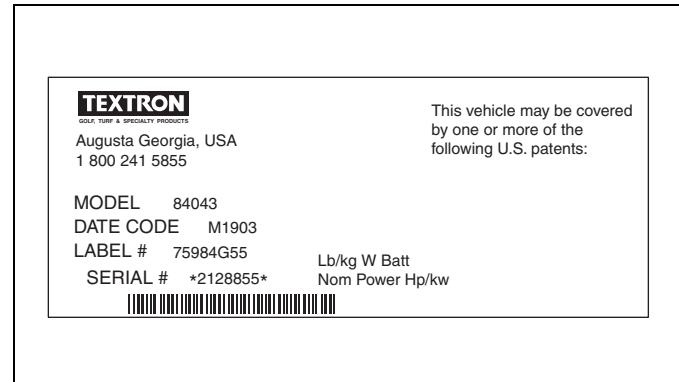
**NOTE: Reference to the Front, Rear, Left and Right sides of the vehicle are always determined by the operator's seated position.**

Record the Vehicle Identification information below for easy reference.

Model Number: \_\_\_\_\_

Date Code: \_\_\_\_\_

Serial Number: \_\_\_\_\_



**Figure 3A**

Always provide the Vehicle Identification Number of the unit when ordering replacement parts or requesting service information. Vehicle Identification Numbers must appear on all correspondence concerning this vehicle.

## 3.2 ENGINE IDENTIFICATION NUMBERS

The Truckster is equipped with either a Perkins 3 cylinder, diesel powered, liquid cooled, four cycle engine or a Suzuki 3 cylinder, gas powered, liquid cooled, four cylinder engine.

The Engine Serial Number for the Perkins engine is stamped onto the engine block on the right side of the engine near the alternator.

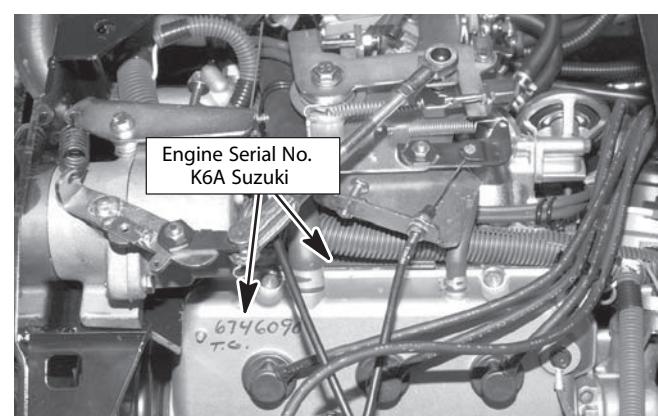
The Engine Serial Number for the Suzuki engine is stamped onto the upper engine block on the right side of the engine, under the engine mount and may be partially hidden by the electrical harness. The serial number is also hand printed on the fuel rail.

Record the Engine Serial Number below for easy reference.

Engine Serial Number: \_\_\_\_\_



**Figure 3B**



# 4 SPECIFICATIONS

## 4.1 PRODUCT IDENTIFICATION

84043 ..... Turf Truckster liquid cooled diesel engine, 4 speed manual transmission, 2 speed differential.  
84044 ..... Turf Truckster liquid cooled diesel engine, 4 speed manual transmission, 2 speed differential. EC approved.  
898627 ..... Turf Truckster liquid cooled gas engine, 4 speed manual

transmission, 2 speed differential.  
898628 ..... Turf Truckster liquid cooled diesel engine, 3 speed automatic transmission, 2 speed differential.

Product	EEC Sound Power	Vibration M/S <sup>2</sup>	
		Arms	Body
84044	103 dB(A)	2.14	.096

## 4.2 ENGINE

### Diesel Engine:

Make ..... Perkins  
Model ..... 403C.11  
Horsepower ..... 26.4 hp (19.7 kW) @ 3000 rpm  
Note: *Actual sustained horsepower will likely be lower than listed in specifications due to operating limitations and environmental factors*  
Displacement ..... 69 cu. In. (1131 cc)  
Torque ..... 49 ft. lbs. (67 Nm) @ 2600 rpm  
Fuel:  
Type ..... No. 2 Diesel  
Rating ..... Min. Cetane rating 45  
Capacity ..... 6.55 U.S. Gal. (24.5 liters)  
Governor ..... All Speed Mechanical

### Gas Engine:

Make ..... Suzuki  
Model ..... K6A  
Horsepower ..... 39 hp (29.1 kW) @ 4450 rpm  
Displacement ..... 40.2 cu. In. (658 cc)  
Torque ..... 45.7 ft. lbs. (62 Nm) @ 4000 rpm  
Fuel:  
Type ..... Unleaded Gasoline  
Rating ..... Min. Octane rating 87  
Capacity ..... 6.55 U.S. Gal. (24.5 liters)

### CAUTION

The use of any fuel containing greater than 10% ethanol may harm the engine's emission control system and therefore invalidate the emission-related warranty through the improper action of the operator.

## 4.3 VEHICLE

### Tires:

Front ..... 20 x 10 - 10 Multi Rib  
Rear ..... 24 x 13 -12 Titan Ultra Trac

### Tire Pressure:

Low Idle ..... 1300 RPM  
High Idle ..... 3180 RPM

### Lubrication:

Capacity ..... 3.7 quarts (3.5 liters)  
Below 32° F (0° C) ... SAE 10W  
32-77° F (0-25° C) .... SAE 20W or 10W30  
Above 77° F (25 ° C) SAE 30W or 10W30  
API Classification ..... CH4  
Air Filter ..... Dry type with evacuator valve.  
Alternator ..... 55 amp  
Cooling System ..... Liquid Cooled  
Capacity ..... 5.1 qt. (4.8 l) 50/50 water ethylene glycol mix

Governor ..... External Mechanical

Low Idle ..... 950 RPM  
High Idle ..... 4450 RPM

### Lubrication:

Capacity ..... 3.3 quarts (3.0 liters)  
Below 32° F (0° C) ... SAE 10W30  
32-86° F (0-30° C) .... SAE 10W30  
Above 86° F (30 ° C) SAE 10W30W or 10W40  
API Classification ..... SJ

Air Filter ..... Dry type with evacuator valve.  
Alternator ..... 55 amp

Cooling System ..... Liquid Cooled

Capacity ..... 3.3 qt. (3.0 l) 50/50 water ethylene glycol mix

### Spark Plugs:

NGK 3932 ..... DCPR7E Gap .032" - .035"  
Denso ..... XU22EPR-U Gap .032" - .035"

Front ..... 20 psi (138 kPa)

Rear ..... Varies by load, See **Section 6.16**

### Battery:

Type ..... 12 Volt Lead/Acid

Group .....	24
Service Brake.....	4 Wheel hydraulic drum brakes
Brake Fluid.....	DOT 3

Parking Brake .....	Integral to rear drum, hand lever actuated
Steering .....	Front wheel power steering

## 4.4 GEAR RATIOS

### Diesel Engine Manual Transmission Gear Ratios:

4th Gear .....	1.000:1
3rd Gear .....	1.423:1
2nd Gear .....	1.947:1
1st Gear .....	3.652:1
Reverse.....	3.463:1
Hydpoid Differential...	11.16:1

### Gas Engine Manual Transmission Gear Ratios:

4th Gear .....	1.000:1
3rd Gear .....	1.513:1

2nd Gear .....	2.391:1
1st Gear.....	4.031:1
Reverse .....	4.173:1
Hypoid Differential ....	14.21:1

### Gas Engine Automatic Transmission Gear Ratios:

3rd Gear .....	1.000:1
2nd Gear.....	1.536:1
1st Gear.....	2.727:1
Reverse .....	2.222:1
Hypoid Differential ....	14.21:1

## 4.5 WEIGHTS AND DIMENSIONS

Dimensions:	Inches (mm)	Weights:	Lbs. (kg)
Length.....	114 (2897)	84043 .....	1604 (823)
Height.....	49 (1245)	84044 .....	1604 (727)
Wheel Base.....	58.2 (1478)	898627 .....	1572 (713)
Turning Radius (Outside).....	242 (6146)	898628 .....	1619 (734)

## 4.6 ACCESSORIES & SUPPORT LITERATURE

Contact your area Jacobsen Dealer for a complete listing of accessories and attachments.



### CAUTION

Use of other than Jacobsen authorized parts, excluding emission related components defined in the Emission Warranty, and accessories may cause personal injury or damage to the equipment and will void the warranty

#### Flatbeds and Boxes

47" Quick Disconnect Flatbed..... 889983

60" Quick Disconnect Flatbed..... 894769

47" Box Assembly (Requires 889983)..... 890010

60" Box Assembly (Requires 894769)..... 2703394

Poly Box Assembly..... 892530

Box Liner (for 890010)..... 888532

Dry seal coupler, 1 set..... 894604

Hydraulic PTO (Requires 894712 and 894713)..... 894644

#### Truck Attachments

Heavy Duty Mechanical PTO..... 4112981

Quick Aerator..... 2701529

Ram Mount (Sprayer control mount)..... 4119631

1500 Top Dresser..... 2701650

Turn Signal with Right Taillight..... 894764

VICON Spreader (Requires 2701601 or 2701602)..... 2701600

VICON hydraulic power kit..... 2701601

VICON mechanical power kit..... 2701602

Back-up Alarm..... 2703183

Exhaust Spark Arrestor..... 882574

Heater Defroster..... 894760

#### Support Literature

Safety & Operation Manual..... 4140040

Parts & Maintenance Manual..... 4140039

Service & Repair Manual

#### ROPS Attachments

Upper ROPS (Roll Over Protective Structure)..... 894761

Steel Door, Left Side (Requires 894761)..... 2701303

Steel Door, Right Side (Requires 894761)..... 2701304

Outside Mirrors (Left and Right)..... 894768

Rear Window..... 894758

Windshield with Wiper..... 894757

#### Hydraulic Attachments

High/Low Gas Hydraulics..... 894712

High/Low Diesel Hydraulics..... 894713

Implement Lift ("A" Frame)..... 892493

# 5 ADJUSTMENTS

## 5.1 GENERAL



### WARNING

To prevent injury, depress clutch pedal and shift transmission to neutral, engage parking brake, stop engine and remove key from ignition switch before making any adjustments or performing maintenance.

Make sure the vehicle is parked on a solid and level surface. Never work on a vehicle that is supported only by the jack. Always use jack stands.

If only the front or rear of the vehicle is raised, place chocks in front of and behind the wheels that are not raised.

1. Adjustments and maintenance should always be performed by a qualified technician. If proper

adjustment cannot be made, contact an authorized Jacobsen Dealer.

2. Replace, do not adjust, worn or damaged components.
3. Long hair, jewelry or loose fitting clothing may get tangled in moving parts.



### CAUTION

Be careful to prevent entrapment of the hands and fingers between moving and fixed components of the machine.

4. Do not change governor settings or overspeed the engine.

## 5.2 ENGINE ACCESS

Never remove or install the engine cover while the engine is running. The engine cover is a *machinery guard* and its removal exposes you to moving parts. Keep hands, hair and clothing away from flywheel, radiator cooling fan, alternator fan, engine belts, pulleys and air intake.



### WARNING

Keep clothing, hands and hair away from moving parts. These items could become entangled, causing serious personal injury.

For servicing the engine and related components, the engine cover can be tilted forward or removed.

To gain access to the engine, unlock key-lock if installed, push the engine cover latch towards the rear of the unit and tilt cover forward.

When replacing the engine cover, make sure the retaining tabs located at the front corners of the engine cover are inserted into the slots in the floorboard. Tilt seat to the rear until the engine latch engages. Lock key-lock if equipped.



### WARNING

Failure to latch the seat properly can result in the engine cover tipping forward causing loss of control of the vehicle and possible personal injury.

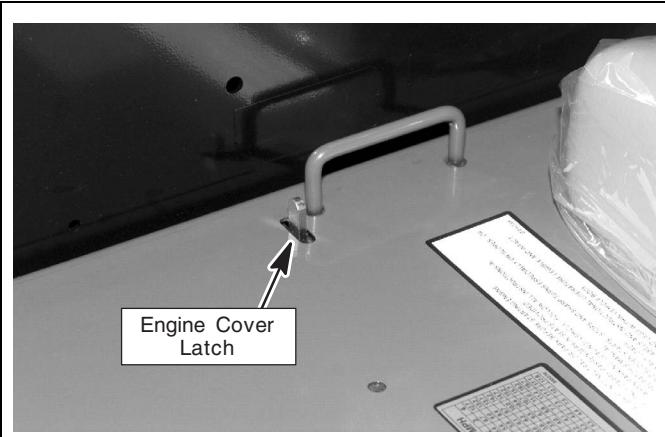


Figure 5A

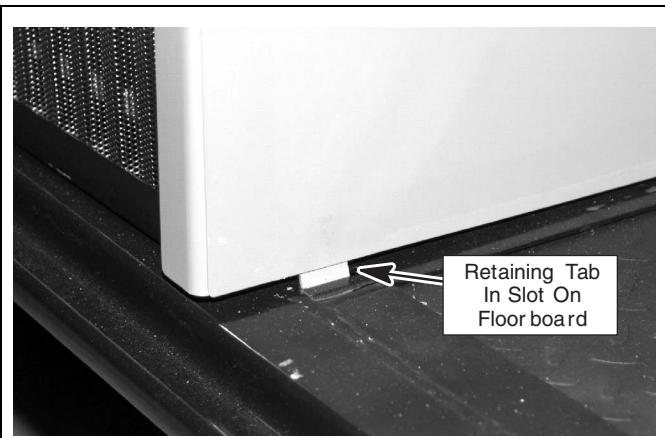


Figure 5B

### 5.3 FRONT COWL ACCESS

The front cowl opens to gain access to two access panels, fuse panel, horn and master cylinder reservoir.

To open the front cowl, locate the release lever at the upper left corner of front clip, near the left side headlight.

Pull the lever toward the headlight to release the front cowl latch and at the same time pull up on the front cowl.

Fully open the cowl and allow it to rest on the steering wheel or upper ROPS structure (if installed).

The front cowl will not "spring up" when the release lever is pulled, it must be lifted manually.

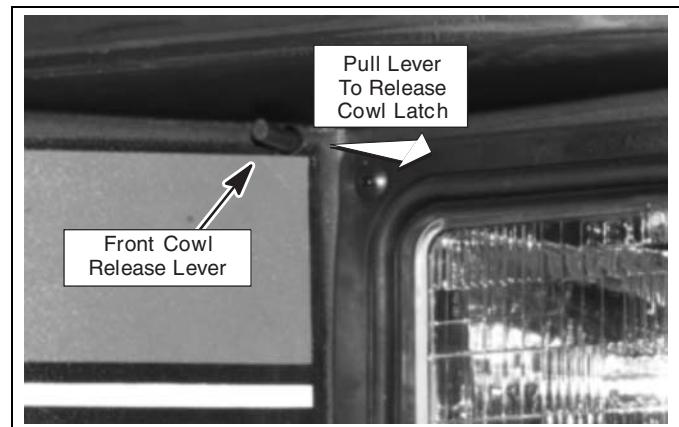


Figure 5C

### 5.4 ACCESS PANELS

There are two access panels located under the front cowl and one located in the middle of the floorboard.

Remove panel (A) under cowl to access the shifter linkage and wiring for the instrument panel.

Remove panel (B) under cowl to access the front suspension.

Remove the center panel (C) in the middle of floorboard to access the throttle cable, accelerator pedal linkage, wire harness and rear hydraulic brake line.

**NOTE:** *It will be necessary to remove the accelerator pedal in order to completely remove the center floorboard panel.*

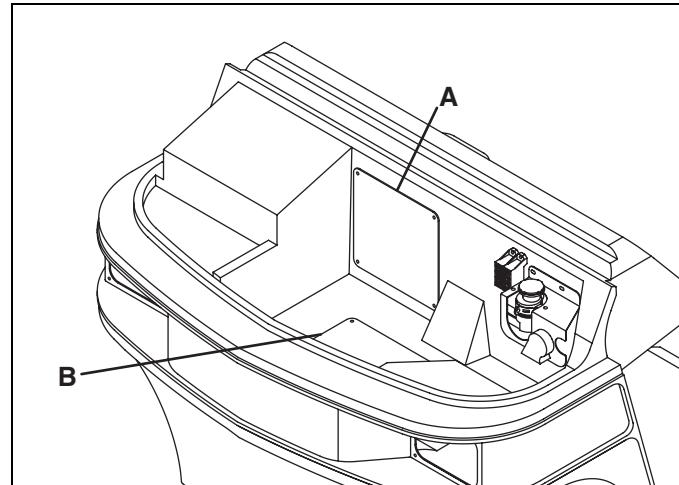


Figure 5D

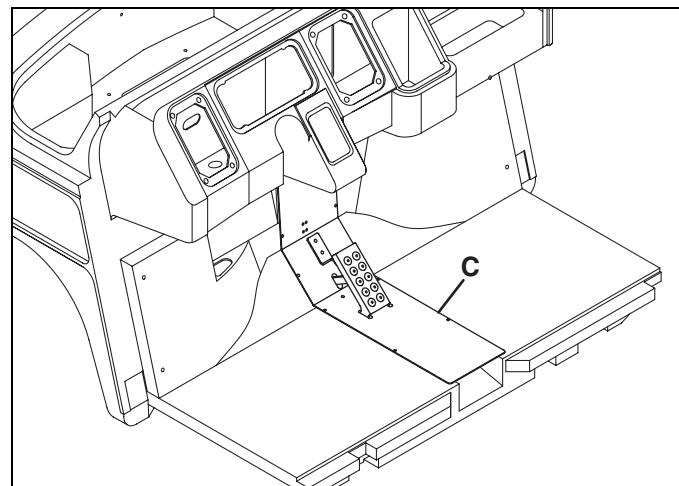


Figure 5E

## 5 ADJUSTMENTS

### 5.5 DIESEL ENGINE ALTERNATOR BELT

Inspect and adjust new belt after first 24-48 hours of operation. Adjust every 200 hours thereafter.

Adjust alternator pulley so belt deflects 1/4" to 1/2" (6 -12 mm) with a 20 lb. push at midpoint between water pump and alternator pulleys.

If tension is incorrect, loosen alternator mounting bolts (**D**) and adjust alternator until proper belt tension is achieved.

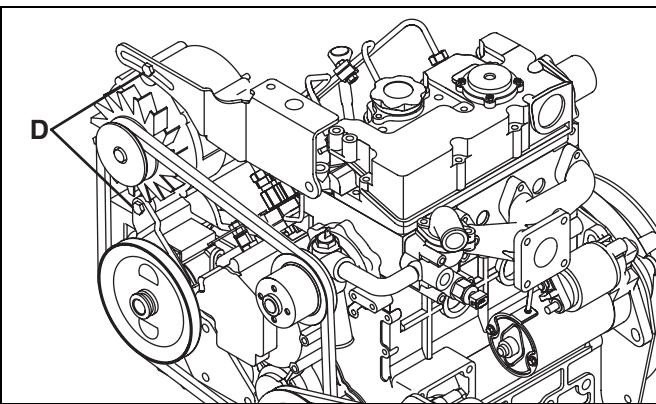


Figure 5F

### 5.6 DIESEL ENGINE HYDRAULIC PUMP BELT

Inspect and adjust new belt after first 24-48 hours of operation. Adjust every 200 hours thereafter.

Adjust hydraulic pump belt so belt deflects 1/4" to 1/2" (6 -12 mm) with a 20 lb. push at midpoint between pulleys.

If tension is incorrect, loosen pump mounting bolts (**E**) and carefully pry away from the engine until proper belt tension is achieved.

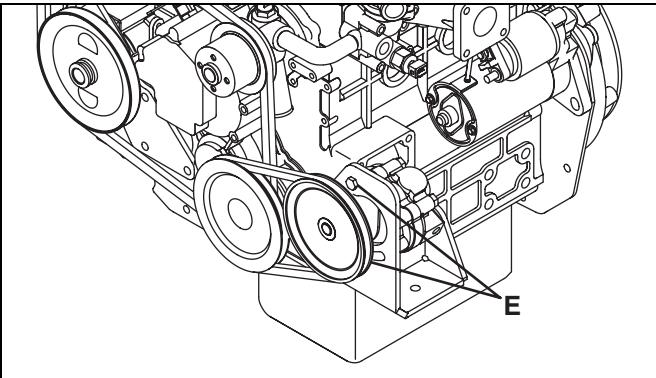


Figure 5G

### 5.7 GAS ENGINE POWER STEERING-ALTERNATOR BELT

Inspect and adjust new belt after first 24-48 hours of operation. Adjust every 200 hours thereafter.

Adjust power steering pump so belt deflects 1/4" to 1/2" (6 -12 mm) with a 20 lb. push at midpoint between pulleys.

If tension is incorrect, loosen power steering pump mounting bolts (**F**) and carefully pry away from the engine until proper belt tension is achieved.

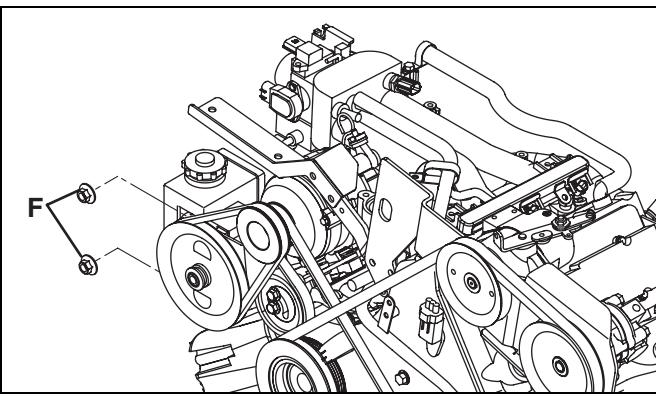


Figure 5H

## 5.8 GAS ENGINE HYDRAULIC PUMP BELT

Inspect and adjust new belt after first 24-48 hours of operation. Adjust every 200 hours thereafter.

Adjust hydraulic pump belt so belt deflects 1/4" to 1/2" (6 -12 mm) with a 20 lb. push at midpoint between pulleys.

If tension is incorrect, loosen pump mounting bolts (**G**) and carefully pry away from the engine until proper belt tension is achieved.

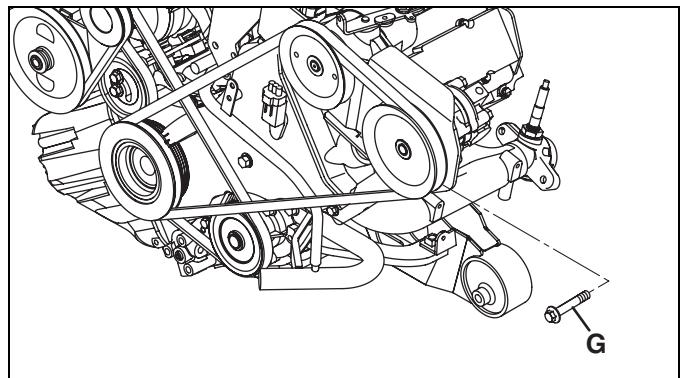


Figure 5I

## 5.9 PARKING BRAKE CABLE

1. Remove the engine cover. Put chocks in front of and behind at least two wheels at opposite corners of vehicle.
2. Engage parking brake. If handle is at an angle greater than 45° to the panel, adjustment is required.
3. Disengage parking brake.
4. Tighten adjustment nut (**E**) a couple of turns.
5. Engage parking brake. Repeat steps 3 and 4 until handle is at approximately a 45° angle when parking brake is engaged.

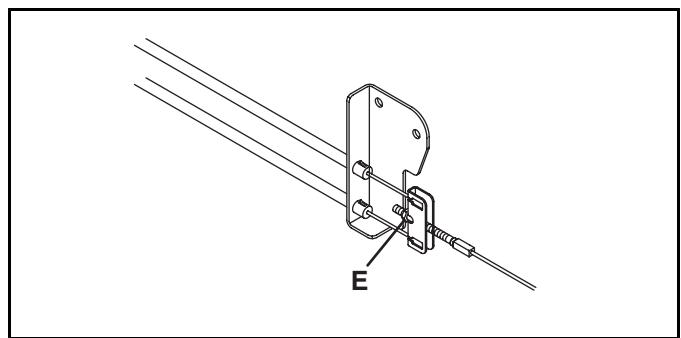


Figure 5J

# 5 ADJUSTMENTS

## 5.10 TORQUE SPECIFICATION

### CAUTION

All torque values included in these charts are approximate and are for reference only. Use of these torque values is at your sole risk. Jacobsen is not responsible for any loss, claim, or damage arising from the use of these charts.

**Extreme caution should always be used when using any torque value.**

Jacobsen uses Grade 5 bolts as standard, unless otherwise noted.

SIZE	UNITS		
GRADE 5	GRADE 8		
#6-32	in-lbs (Nm)	20 (2.3)	—
#8-32	in-lbs (Nm)	24 (2.7)	30 (3.4)
#10-24	in-lbs (Nm)	35 (4.0)	45 (5.1)
#10-32	in-lbs (Nm)	40 (4.5)	50 (5.7)
#12-24	in-lbs (Nm)	50 (5.7)	65 (7.3)
1/4-20	in-lbs (Nm)	95 (10.7)	125 (14.1)
1/4-28	in-lbs (Nm)	95 (10.7)	150 (17.0)
5/16-18	in-lbs (Nm)	200 (22.6)	270 (30.5)
5/16-24	in-lbs (Nm)	240 (27.1)	300 (33.9)
3/8-16	ft-lbs (Nm)	30 (40.7)	40 (54.2)
3/8-24	ft-lbs (Nm)	35 (47.5)	45 (61.0)

SIZE	UNITS		
GRADE 5	GRADE 8		
7/16-14	ft-lbs (Nm)	50 (67.8)	65 (88.1)
7/16-20	ft-lbs (Nm)	55 (74.6)	70 (94.9)
1/2-13	ft-lbs (Nm)	75 (101.7)	100 (135.6)
1/2-20	ft-lbs (Nm)	85 (115.3)	110 (149.2)
9/16-12	ft-lbs (Nm)	105 (142.4)	135 (183.1)
9/16-18	ft-lbs (Nm)	115 (155.9)	150 (203.4)
5/8-11	ft-lbs (Nm)	150 (203.4)	195 (264.4)
5/8-18	ft-lbs (Nm)	160 (217.0)	210 (284.8)
3/4-10	ft-lbs (Nm)	170 (230.5)	220 (298.3)
3/4-16	ft-lbs (Nm)	175 (237.3)	225 (305.1)
7/8-14	ft-lbs (Nm)	300 (406.8)	400 (542.4)

SIZE	UNITS						Non Critical Fasteners into Aluminum
M4	Nm (in-lbs)	1.2 (11)	1.7 (15)	2.9 (26)	4.1 (36)	5.0 (44)	2.0 (18)
M5	Nm (in-lbs)	2.5 (22)	3.2 (28)	5.8 (51)	8.1 (72)	9.7 (86)	4.0 (35)
M6	Nm (in-lbs)	4.3 (38)	5.7 (50)	9.9 (88)	14.0 (124)	16.5 (146)	6.8 (60)
M8	Nm (in-lbs)	10.5 (93)	13.6 (120)	24.4 (216)	33.9 (300)	40.7 (360)	17.0 (150)
M10	Nm (ft-lbs)	21.7 (16)	27.1 (20)	47.5 (35)	66.4 (49)	81.4 (60)	33.9 (25)
M12	Nm (ft-lbs)	36.6 (27)	47.5 (35)	82.7 (61)	116.6 (86)	139.7 (103)	61.0 (45)
M14	Nm (ft-lbs)	58.3 (43)	76.4 (55)	131.5 (97)	184.4 (136)	219.7 (162)	94.9 (70)

## 6.1 GENERAL



### WARNING

Before you clean, adjust, or repair this equipment, depress clutch pedal and shift transmission to neutral, engage parking brake, stop engine and remove key from ignition switch to prevent injuries

Make sure the vehicle is parked on a solid and level surface. Never work on a vehicle that is supported only by the jack. Always use jack stands.

1. Adjustment and maintenance should always be performed by a qualified technician. If proper adjustments cannot be made, contact an Authorized Jacobsen Dealer.
2. Inspect the equipment on a regular basis, establish a maintenance schedule and keep detailed records.

## 6.2 ENGINE

**IMPORTANT:** A separate Engine Manual, prepared by the engine manufacturer, is supplied with this vehicle. Read the engine manual carefully until you are familiar with the operation and maintenance of the engine. Proper attention to the engine manufacturer's directions will assure maximum service life of the engine. To order replacement engine manuals contact the engine manufacturer.

The proper break-in of a new engine can make a considerable difference to the performance and life of the engine.

**Note:** *The vehicle is designed to operate most efficiently at the preset governor setting. Do not change the engine governor settings or overspeed the engine.*

During the break-in period, Jacobsen recommends the following:

1. During the first 50 hours of operation, a new engine should be allowed to reach an operating temperature of at least 140°F (60°C) prior to operation at full load.
2. Check the engine oil level twice daily during the first 50 hours of operation. Higher than normal oil consumption is not uncommon during the initial break-in period.
3. Change engine oil and oil filter element after first 35 hours of operation.
4. Check and adjust hydraulic pump and alternator belts.
5. Refer to Section 8.3 and Engine Manual for specific maintenance intervals.

- a. Keep the equipment clean.
- b. Keep all moving parts properly adjusted and lubricated.
- c. Replace worn or damaged parts before operating the machine.
- d. Keep all fluids at their proper levels.
- e. Keep shields in place and all hardware securely fastened.
- f. Keep tires properly inflated.

3. Long hair, jewelry or loose fitting clothing may get tangled in moving parts.
4. Use the illustrations in the Parts Catalog as reference for the disassembly and reassembly of components.
5. Recycle or dispose of all hazardous materials (batteries, fuel, lubricants, anti-freeze, etc.) according to local, state or federal regulations.

6. If the injection pump, injectors or the fuel system require service, contact an authorized Jacobsen Dealer.

*Keep your engine clean.* If dirt has accumulated on the engine, it should be washed with a non-flammable solvent or strong detergent.

When washing becomes necessary, it can be carried out simultaneously when servicing the vehicle.

In order to maintain reliable service from your engine, a regular check-up and maintenance schedule should be followed. Proper maintenance will prolong the engine's life and avoid premature overhaul.

# 6 MAINTENANCE

## 6.3 ENGINE OIL

Check the engine oil at the start of each day, before starting the engine.

To check the engine oil, remove the dipstick and wipe it with a clean rag. Reinsert the dipstick until it contacts the oil tube, remove the dipstick and read the oil level.

The oil level should always be between the ADD and FULL mark on the dipstick. If oil level is below the add mark, remove filler cap and add oil to bring the level up between marks. *Do Not Overfill.*

**NOTE:** *If the engine has recently been running, allow time (with engine turned off) to let the oil settle to obtain a correct oil level reading.*

**Diesel Engine:** Use only engine oils with API classification CH4.

**Gas Engine:** Use only engine oils with API classification SJ.

Using oil other than the service class listed, or oil change intervals longer than recommended could reduce engine life. Damage to engine due to improper maintenance or use of incorrect oil quality and/or viscosity is not covered by the engine warranty.

**Diesel Engine:** Perform initial oil change after first 35 hours of operation and every 75 hours or two months thereafter. See Engine Manual.

**Gas Engine:** Perform initial oil change after first 50 hours of operation and every 100 hours or three months thereafter. See Engine Manual.

Significant oil loss can damage the engine. Considerable oil loss could be due to a loose or incorrectly installed drain plug, cracked gaskets, or even a loose oil filter.

Drain plugs are located beneath the engine in the oil pan. Remove both plugs when changing the oil.

Check drain plugs and oil for metal chips that could indicate engine damage. Replace drain plugs with damaged gasket surfaces immediately.

After oil has completely drained, clean excess oil from oil pan and drain plugs. Install drain plugs and tighten securely. Refer to engine manual for proper torque.

Always replace the engine oil filter when changing the engine oil. Apply a light coat of engine oil to the rubber gasket surface of new filter before installing.

**Diesel Engine:** Fill Perkins engine with approximately 3.7 qts. (3.5 l) of clean engine oil. Check oil level and add additional oil if required.

**Gas Engine:** Fill Suzuki engine with approximately 3.3 qts. (3.0 l) of clean engine oil. Check oil level and add additional oil if required.

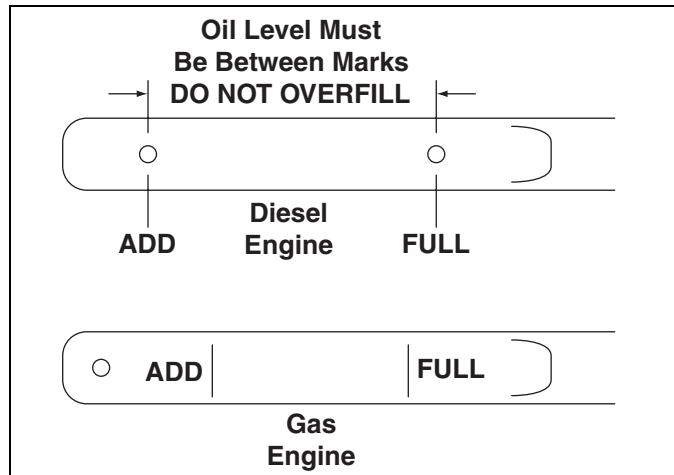


Figure 6A

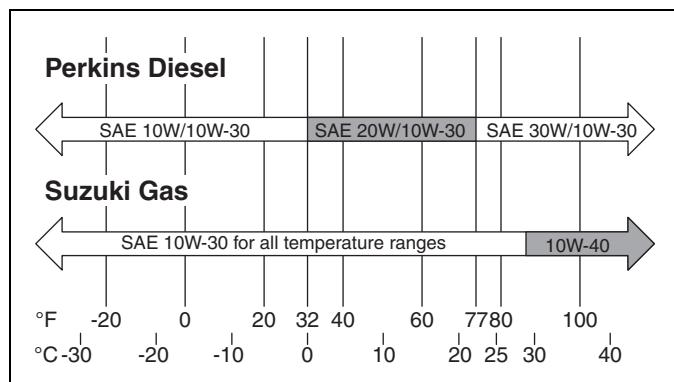


Figure 6B

<b>Diesel Engine:</b>	
Above 77°F (25°C)	SAE 30W or SAE10W30
32 to 77°F (0 to 25°C)	SAE 20W or SAE 10W30
Below 32° (0°C)	SAE10W or SAE 10W30
<b>Gas Engine:</b>	
All temperature ranges	SAE 10W30
Above 85° F (29° C)	SAE 10W 40

### Replacement Oil Filters

Perkins Diesel	842553
Suzuki Gas	2701908

## 6.4 POWER STEERING RESERVOIR

### **WARNING**

Before servicing or doing any maintenance work around the engine area, make sure the engine has had time to cool. Serious burns can result if the engine or surrounding surfaces are hot.

The power steering reservoir is located on the right side of the engine, below the alternator.

The level in the reservoir should be checked after the first 35 and 70 hours. After that level should be checked every 100 hours.

When checking the fluid level before the engine has been warmed up, the level should be at the COLD mark on the dipstick. After the engine has been warmed up and the fluid is warm, the level should be between the COLD and HOT marks. Use General Motors Power Steering Fluid as required to bring fluid up to proper level.

### Power Steering Dipstick



Figure 6C

## 6.5 MUFFLER AND EXHAUST

### **WARNING**

Exhaust fumes contain carbon monoxide that is toxic and can be fatal when inhaled.

**NEVER** operate an engine without proper ventilation.

To protect from carbon monoxide poisoning, inspect the complete exhaust system regularly and always replace a defective muffler.

If you notice a change in the color or sound of the exhaust, stop the engine immediately. Identify the problem and have the system repaired.

Torque all exhaust manifold hardware evenly. Tighten or replace exhaust clamps.

## 6.6 ENGINE OVERHEAT PROCEDURE

During vehicle operation, if the water temperature gauge shows 230° F (110° C) or above, and/or the overheat warning buzzer sounds, follow this procedure.

1. **Stop** the vehicle. **DO NOT** shut the engine off. Place vehicle in neutral and engage the parking brake.
2. Immediately disengage any accessories that are operating.
3. Slow the engine speed to a fast idle.
4. Remove any dirt, chaff, debris, etc. from the radiator intake screen located on the right side of the vehicle.

### **CAUTION**

Be careful when opening the engine access cover or cleaning the intake screen. Metal surfaces near the radiator and engine may be hot to the touch. Use a brush or gloves to clean screen.

Temperature gauge needle should start to go down approximately 30 seconds after the screen is cleaned. If temperature does not go down, STOP the engine and check the following.

1. Check to see if cooling fan is operating. Fan should be turning with coolant above 180° F, even with ignition switch in OFF position.
2. Check engine oil level.
3. Check for a leak in the cooling system. **Do not** open radiator when hot. Check coolant levels after system completely cools.

Failure to heed the overheat warning and properly maintain the cooling system will cause permanent engine damage.

## 6 MAINTENANCE

### 6.7 COOLING SYSTEM

This vehicle is equipped with a radiator, temperature controlled fan, temperature gauge and an overheat buzzer.



#### WARNING

To prevent serious bodily injury from hot coolant or steam blow-out, never attempt to remove the radiator cap while the engine is running. Stop the engine and wait several hours until it is cool. Even then, use extreme care when removing the cap.



#### CAUTION

Do not pour cold water into a hot radiator. Do not operate engine without a proper coolant mixture. Install cap and tighten securely.



#### WARNING

The cooling fan is controlled by a temperature switch and may start at any time coolant temperature is above 150° F (65 ° C), even with the ignition switch in the OFF position. Do not attempt to service the cooling system without first disconnecting the negative battery cable or removing the fan fuse.

NEVER add straight antifreeze to the radiator. Mix equal amounts of clean water with ethylene glycol based antifreeze in a separate container before adding it to the cooling system. Do not use a mixture of more than 50% antifreeze.

Always recycle or dispose of used antifreeze in a responsible manner. Used antifreeze can be harmful to the environment.

1. Check coolant level daily. Radiator should be full and recovery bottle should be up to the **cold** mark.
  - a. Tilt engine cover forward to gain access to the radiator.
  - b. With the engine stopped and cool, remove radiator cap and check coolant level. The coolant level should be at or within 1/4 in. (6 mm) of the filler port. Fill with a 50/50 antifreeze/water mixture if required.
  - c. Visually check the reservoir tank. Coolant level should be at or above **FULL** line but less than 4 in. (102 mm). Add a 50/50 antifreeze/water mixture if required.
2. Drain and refill cooling system every 400 hours or 9 months, whichever comes first. Allow system to cool before draining.

- a. Remove the cooling fan fuse
- b. Remove the radiator cap.
- c. Open the engine block drain and the radiator drain. Remove lower radiator hose. Close both drains and install lower radiator hose once system has completely drained.
- d. Empty and clean the recovery bottle.
- e. Fill radiator to the bottom of the filler neck with 50/50 antifreeze/water mixture.
- f. Fill recovery bottle to full mark with 50/50 antifreeze/water mixture.

3. Keep radiator air passages clean. Use compressed air (30 psi maximum) to clean the fins. Water left between the fins will collect dirt and reduce the amount of air flow to properly cool the engine.
4. To provide proper air flow, do not obstruct the air intake screen on the right side of the vehicle. Keep screen clean.
5. Check and tighten the fan belt. Replace clamps and hoses every two years.
6. If you have to add coolant more than once a month, or add more than one quart at a time, have a authorized Jacobsen Dealer check the cooling system.

## 6.8 AIR FILTER

Do not remove the element for inspection or cleaning. Unnecessary removal of the filter increases the risk of injecting dust and other impurities into the engine.

When service is required, first clean the outside of the filter housing; then remove the old element as gently as possible and discard.

1. Carefully clean the inside of the filter housing without allowing dust into the air intake.
2. Inspect the new element. Do not use a damaged element and never use an incorrect element.
3. Assemble the new element and make sure it seats properly.
4. Reassemble cap making sure it seals completely around the filter housing. Dust evacuator (A) must be facing down.
5. Check all hoses and air ducts. Tighten hose clamps.

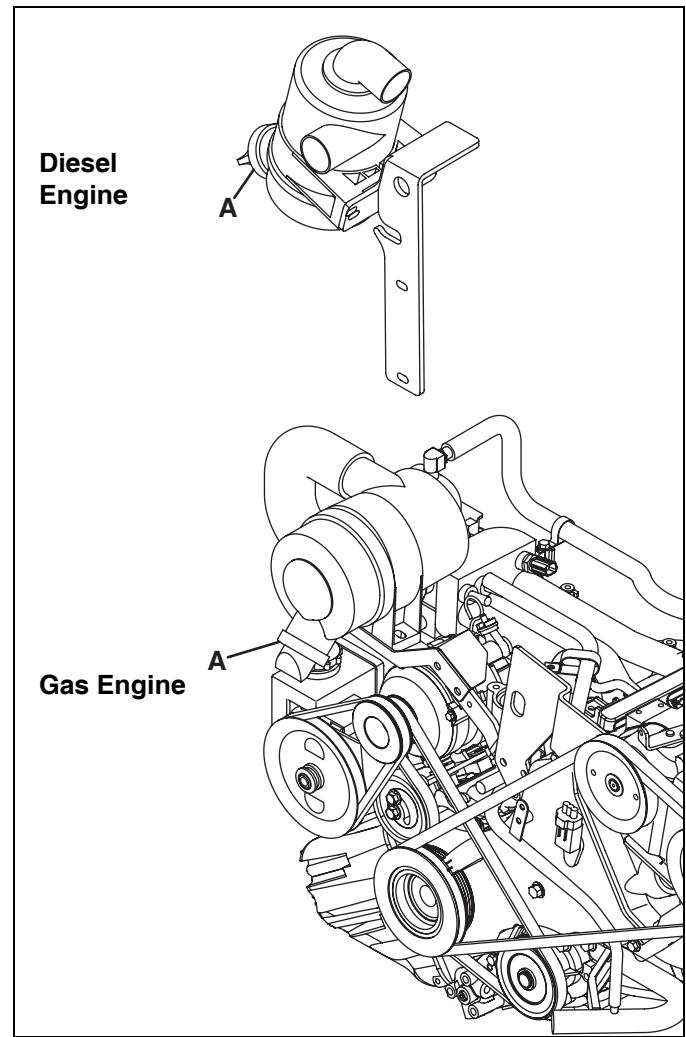


Figure 6D

## 6.9 JUMP STARTING

Before attempting to "jump start" the vehicle, check the condition of the discharged battery.

Engage parking brake of both vehicles, shift transmission to neutral and turn off all electrical loads



### WARNING

Batteries generate explosive hydrogen gas. To reduce the chance of an explosion, avoid creating sparks near battery. Always connect the negative jumper cable to the frame of the vehicle with the discharged battery, away from the battery.

#### When connecting jumper cables:

1. Stop the engine on the vehicle with a good battery.

2. Connect RED jumper cable to the positive (+) terminal on the good battery and to the positive (+) terminal on the "discharged" battery.
3. Connect the BLACK jumper cable from the negative (-) terminal on the good battery to the frame of the vehicle with the discharged battery.

After cables have been connected, start the engine on the vehicle with the good battery then start the vehicle.

## 6 MAINTENANCE

### 6.10 BATTERY

Make absolutely certain the ignition switch is "Off" and the key has been removed before servicing the battery.

#### CAUTION

Always use insulated tools, wear protective glasses or goggles and protective clothing when working with batteries. You must read and obey all battery manufacturer's instructions.

Tighten cables securely to battery terminals and apply a light coat of silicone dielectric grease to terminals and cable ends to prevent corrosion. Keep vent caps and terminal covers in place.

Keep the top of the battery clean and free of corrosion by washing with a solution of baking soda and water. Rinse with clean water.

Verify battery polarity before connecting or disconnecting the battery cables.

1. When installing the battery, always assemble the RED, positive (+) battery cable first and the ground, BLACK, negative (-) cable last.
2. When removing the battery, always remove the ground, BLACK, negative (-) cable first and the RED, positive (+) cable last.
3. Make sure battery is properly installed and secured to the battery tray.

#### WARNING

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. **Wash your hands after handling.**

### 6.11 CHARGING BATTERY

#### WARNING

Charge battery in a well ventilated area. Batteries generate explosive gases. To prevent an explosion, keep any device that may create sparks or flames away from the battery.

To prevent injury, stand away from battery when the charger is turned on. A damaged battery could explode.

1. Refer to Section 6.10. Read the Battery and Charger's manual for specific instructions.
2. Whenever possible, remove the battery from the vehicle before charging. If battery is not sealed, check that the electrolyte covers the plates in all the cells.

Battery cables must be disconnected before using a "fast charger" or damage to the alternator may result.

3. Make sure the charger is "Off". Then connect the charger to the battery terminals as specified in the charger's manual.
4. Always turn the charger "Off" before disconnecting charger from the battery terminals.

## 6.12 HYDRAULIC HOSES



### WARNING

To prevent serious injury from hot, high pressure oil, never use your hands to check for oil leaks, use paper or cardboard.

Hydraulic fluid escaping under pressure can have sufficient force to penetrate skin. If fluid is injected into the skin it must be surgically removed within a few hours by a doctor familiar with this form of injury or gangrene may result.

1. Always disengage all drives, engage parking brake, stop engine and remove key before inspecting or disconnecting hydraulic lines or hoses.
2. Check visible hoses and tubes daily. Look for wet hoses or oil spots. Replace worn or damaged hoses and tubes before operating the machine.
3. The replacement tube or hoses must be routed in the same path as the existing hose, do not move clamps, brackets and ties to a new location.
4. Thoroughly inspect all tubes, hoses and connections every 250 hours.

**IMPORTANT:** The hydraulic system can be permanently damaged if the oil becomes contaminated. Before disconnecting any hydraulic component, clean the area around the fittings and the hose ends to keep impurities out of the system.

- a. Before disconnecting any hydraulic component, tag or mark the location of each hose then clean the area around the fittings.
- b. As you disconnect the component, be prepared to assemble plugs or caps to the hose ends and open ports. This will keep impurities out of the hydraulic system and also prevent oil spills.
- c. Make sure "O" rings are clean and hose fittings are properly seated before tightening.
- d. Keep the hose from twisting. Twisted hoses can cause couplers to loosen as the hose flexes during operation resulting in oil leaks.
- e. Kinked or twisted hoses can restrict the oil flow causing the system to malfunction and the oil to overheat and also lead to hose failure.

## 6.13 HYDRAULIC RESERVOIR AND FILTER

Refer to Section 8.3 for specific maintenance intervals.

Normally the hydraulic system will not need additional fluid. Sometimes a leak may develop causing the system to require repair and refilling. If you notice a hydraulic fluid escaping when the system is being used or if a leak is suspected, **turn off all hydraulic functions and stop the engine.**

Periodically check the hydraulic fluid level (hydraulic level should be checked every **100 hours** of operation). Loss of fluid can signal a small leak before it becomes worse.

To check the fluid level:

1. Place vehicle on a flat and level surface. Fully lower any accessory attachment, including the dump box. Stop the vehicle engine.
2. Remove the dipstick/breather tube from the top of the tank. Wipe the dipstick, then place in tank with the threaded flange resting on the tank (do not screw in), Fluid should show on the knurled portion of the dipstick.

The hydraulic system is protected by one 10 micron filter (A). The filter is located under the side console, near the parking brake lever.

### To replace hydraulic oil filter:

1. Remove the old filter.
2. Fill new filter with oil then install new filter. Hand tighten only.
3. Operate engine at idle speed with hydraulic system in neutral for five minutes.
4. Check hydraulic oil level and fill to knurled mark on gauge.

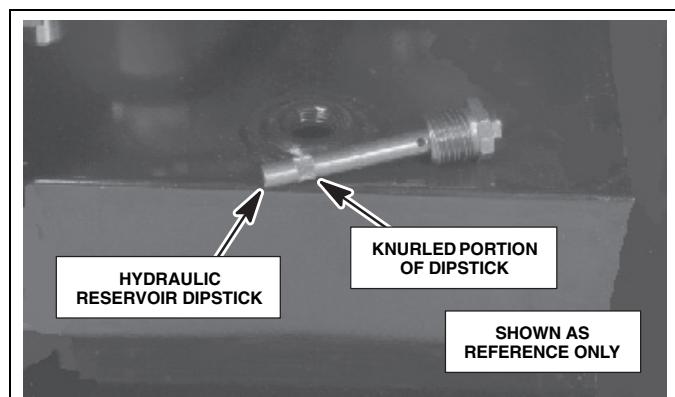


Figure 6E

# 6 MAINTENANCE

## 6.14 FUEL

Handle fuel with care - it is flammable and highly explosive under certain conditions. Use an approved container, the spout must fit inside the fuel filler neck. Avoid using cans and funnels to transfer fuel.

### **WARNING**

Remove the fuel cap slowly. Fuel may be under pressure. Spray could cause serious injury.

Never remove the fuel cap from the fuel tank, or add fuel, when the engine is running or while the engine is hot.

Do not smoke when handling fuel. Never fill or drain the fuel tank indoors.

Do not spill fuel and clean spilled fuel immediately.

Never handle or store fuel containers near an open flame or any device that may create sparks and ignite the fuel or fuel vapors.

Be sure to reinstall and tighten fuel cap securely.

1. Fill the fuel tank to within 1 in. (25 mm) of the bottom of the filler neck.
2. Store fuel according to local, state or federal ordinances and recommendations from your fuel supplier.
3. Never overfill or allow the tank to become empty. Check fuel level in the tank by turning the ignition switch to the ON position and reading the level indicated by the fuel gauge.

## 6.15 FUEL SYSTEM

Then Perkins diesel engine in the Truckster is self priming. It is not required to purge air from the system.

Refer to Section 8.3 for specific maintenance intervals.

4. Check fuel lines and clamps every 50 hours. Replace fuel lines and clamps at the first sign of damage.
5. The fuel tank capacity is 6.5 gal. (24.5 l). Fill tank using the following fuel recommendations:

### **Diesel Engine**

- a. Use clean, fresh, #2 Diesel fuel when operating temperature is above 20° F (-7° C). Minimum Cetane rating 45.
- b. Use clean, fresh, #1 Diesel fuel when operating temperature is below 20° F (-7° C). If #1D fuel is not available, a winterized blend of #1D and #2D may be available. This blended fuel is usually called #2D and may be used in colder climates. Do not use #2D unless you are sure it has been **winterized**. Cold temperatures may cause it to thicken, which will keep your vehicle from running.
- c. **DO NOT** use Aviation Fuel JP4. Refer to Engine Manual for additional information.

**Gas Engine:** Use clean fresh Unleaded Gasoline, 87 octane or higher.

### **CAUTION**

The use of any fuel containing greater than 10% ethanol may harm the engine's emission control system and therefore invalidate the emission-related warranty through the improper action of the operator.

## 6.16 TIRE PRESSURE

Keep tires properly inflated to prolong tire life. Check inflation pressure while the tires are cool. Inspect tread wear.

Lower pressure will help avoid leaving tire marks in soft turf. Higher pressures may be required for heavier loads. Rear tire pressure must be set at 28 psi (193 kPa) when operating with a full load. *Never exceed the maximum pressure indicated on the tire.*

Check the pressure with an accurate, low pressure tire gauge. Due to the low volume of air needed, over-inflation may be reached in a matter of two to three seconds.

Keep tires inflated to:

Front - 20 psi - (138 kPa)

Rear - Varies, determined by load. (See Chart)

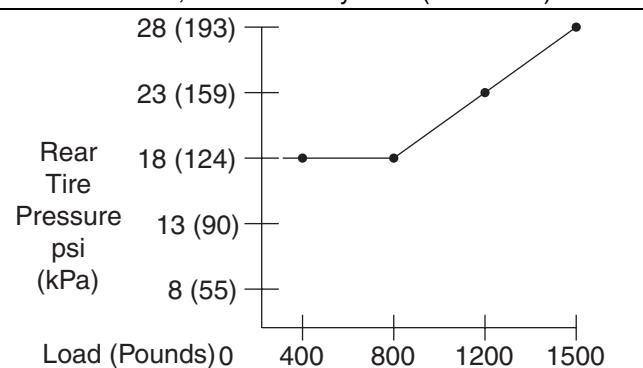


Figure 6F

## 6.17 TIRE REMOVAL AND INSTALLATION

### Removal:

- Park the vehicle on a flat and level surface. Apply parking brake, shut off engine and shift transmission to 1st gear.
- Refer to **Section 6.18** for proper lifting procedures. Always use jack stands, never rely only on a jack for support.

Raise the vehicle only enough to remove the tire. Never place feet hands or any part of your body under the vehicle when raising it.

- Remove the wheel retaining nuts and remove wheel and tire assembly from the hub.
- Perform required service on tire.

### CAUTION

Unless you have the proper training, tools and experience, DO NOT attempt to mount a tire on a rim. Improper mounting can produce an explosion which may result in serious injury.

### Installation:

- Remove dirt, grease and oil from stud thread. Do not lubricate threads.
- Position wheel on hub and inspect to insure full contact between mounting surface of wheel and hub or brake drum. Make sure valve stem is located towards the outside. Finger tighten all hardware then torque hardware in criss-cross order; always tighten nuts in the top position.
- Check and retorque daily until torque is maintained, 70-100 ft.lbs. (95-140 Nm)

## 6.18 RAISING THE VEHICLE



### WARNING

Make sure the vehicle is parked on a solid and level surface. Never work on a vehicle that is supported only by the jack. Always use jack stands.

Whenever possible empty the sprayer tank before raising the vehicle. Liquid moving inside the tank can cause an unbalanced load that could tip the vehicle.

Never raise the vehicle with the engine running or with a person sitting in the operator's seat.

Always block the tire diagonally opposite the tire being raised.

Never place hands, feet or any part of your body under the vehicle when raising it with a hoist or is not properly supported by jack stands.

A scissors type jack or a floor jack with a 1-1/2 ton (minimum) capacity that can be lowered to 3-3/8" (86 mm) height is required. Refer to figure for jacking locations.

Shift the transmission into 1st gear and apply the parking brake. Chock or block the tire diagonally opposite the side being raised. Raise the vehicle only enough to perform maintenance required.

Jack the vehicle to the appropriate height and place jack stands or equivalent support beneath the frame near the jack. Lower the jack and allow the vehicle to rest on jack stands.

When using a hoist to raise the vehicle, use the same procedure for supporting the frame and blocking the tires as you would when using a jack.

To prevent damage to the vehicle or attached accessory, never use a hoist to raise only one corner of the vehicle. Always raise BOTH front or rear corners equally.

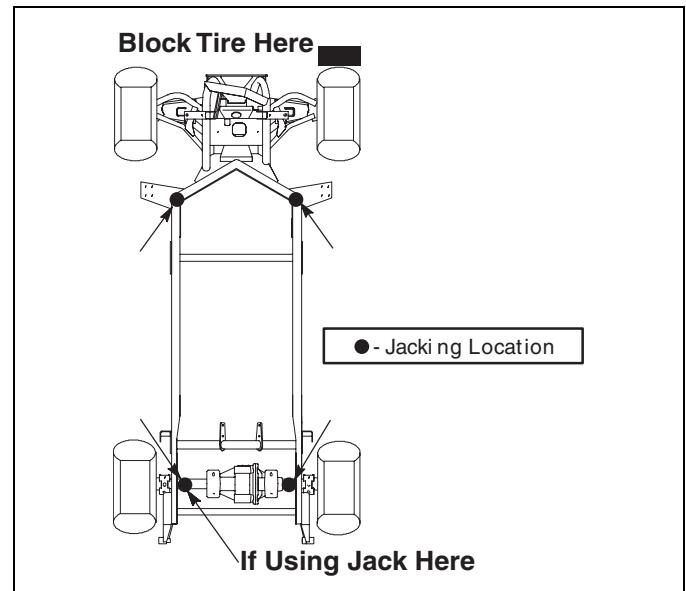


Figure 6G

# 6 MAINTENANCE

## 6.19 TOWING THE VEHICLE

### **WARNING**

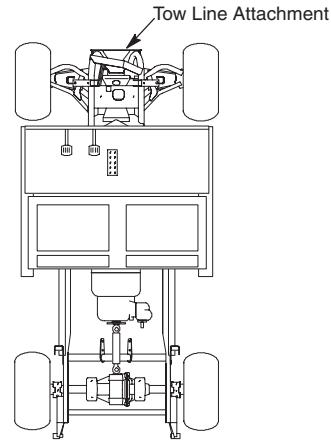
To prevent injury or vehicle damage, the following guidelines should always be followed.

- **Never** accelerate or stop suddenly when towing a vehicle.
- **Never** change the direction of the vehicle abruptly or make sharp turns on an incline when towing a vehicle.
- **Never** tow the vehicle faster than 5 m.p.h. (8 km/h). Towing at excessive speed could cause either vehicle to lose proper steering control
- Adjust your speed for weather and surface conditions when towing (rain, snow, ice, hills, etc.).

If for any reason the vehicle needs to be towed, follow the procedures below.

1. If towing the vehicle with a tow-rope or chain, an operator is required to steer the vehicle and to control the brakes.
2. Attach a tow-rope only to the front vertical frame member on either side of the vehicle.
3. Shift transmission Neutral and release parking brake.

4. Slowly drive towing vehicle forward until tow-line is pulled tight.
5. While towing, try to keep the tow light taunted at all times. Be careful going down inclines and turning corners.



A Front Bumper Accessory (Part No. 894778) is available for use with the Truckster. If a Front Bumper is mounted to your vehicle, make sure to follow the instructions included with the bumper for proper connection of the chain or tow rope

Figure 6H

## 6.20 GOVERNOR OIL LEVEL

### Suzuki Gas Engine only

Check the oil level in the governor every 100 hours of use. To check the level, remove the plug from the back side of the governor. Oil level should be up to the level of the plug opening.

**Governor Oil Capacity** ..... 1.5 oz. (44 ml)

**Oil Type** ..... SAE 20W engine Oil

If fluid level is low, add the recommended oil type.

Remove the plug from the rear of the governor, remove the plug from the top of the governor and add a SAE 20W motor oil until the oil begins to leak from the rear port. Replace both plugs.

When replacing the plugs, use teflon tape or a Permatex 20 sealant (or equivalent pipe thread sealant) on the threads of the plug.

Torque the plugs to  $95 \pm 10$  in. lb.

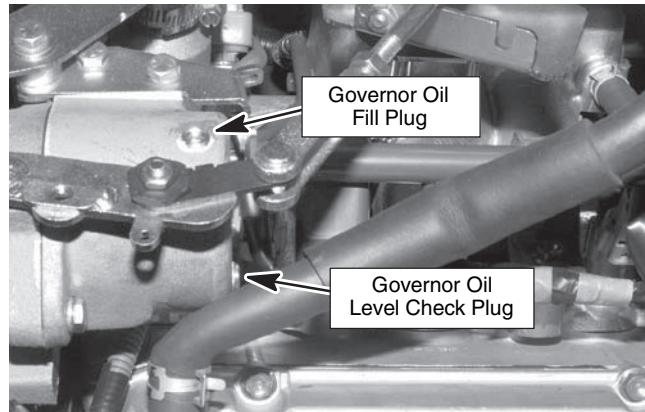


Figure 6I

## 6.21 HYDRAULIC BRAKES

### **WARNING**

Improper maintenance of the brake system may result in loss of vehicle control by the operator. Losing control of the vehicle due to brake loss may cause injury to the operator or bystanders and vehicle damage

This vehicle is equipped with four wheel hydraulic brakes controlled by the brake pedal and a hand operated parking brake lever.

Keep your brake system clean and properly maintained. Do not operate the Spraytek if the brakes do not stop vehicle properly.

The brake fluid master cylinder reservoir is located under the front cowl.

The fluid level in the master cylinder reservoir must be kept between the MIN (minimum) and MAX (maximum) marks. Add DOT 3 type brake fluid as required.

If the brake fluid indicator light comes on and remains on, check the fluid level in the reservoir.

#### Bleeding Hydraulic Brakes:

If the brakes do not hold properly, if they feel spongy or if the brake fluid reservoir is allowed to "run-dry", it may be required to bleed the system in order to remove air from the brake lines.

1. Bleed the brakes in the following order, Left Rear, Right Rear, Right Front and Left Front.
2. Attach a hose to the bleeder screw and place the other end of the hose in a container to catch fluid run-off when bleeding the system.
3. Bleed brake.
  - a. Loosen the bleeder screw.
  - b. Have an assistant push down on the brake pedal and hold the pedal down.
  - c. Tighten the bleeder screw.
  - d. Have assistant release pedal.

**NOTE: Do Not release brake pedal until the bleeder screw is tightened or air will be sucked back into the brake lines**

- e. Repeat steps a through d as required until all air bubbles are purged from the system and a steady flow of fluid comes from the brake line.
- f. Periodically check fluid level in reservoir. Do not allow the reservoir to fully empty or bleeding procedure will need to be repeated.
4. Repeat Step 3 for each brake.

5. Most communities have a disposal system for DOT 3 brake fluid. Please dispose of fluids properly.

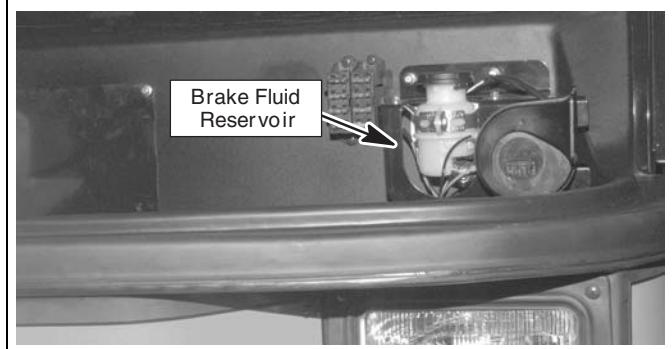


Figure 6J

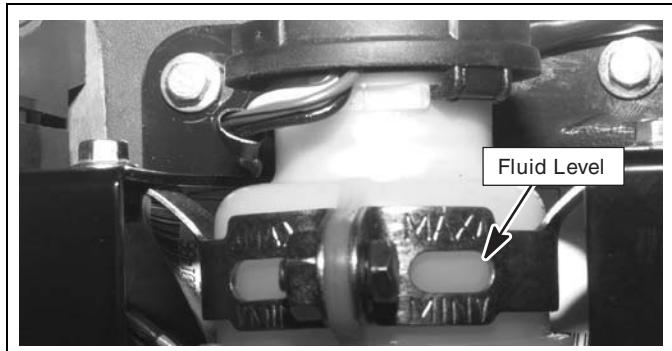


Figure 6K

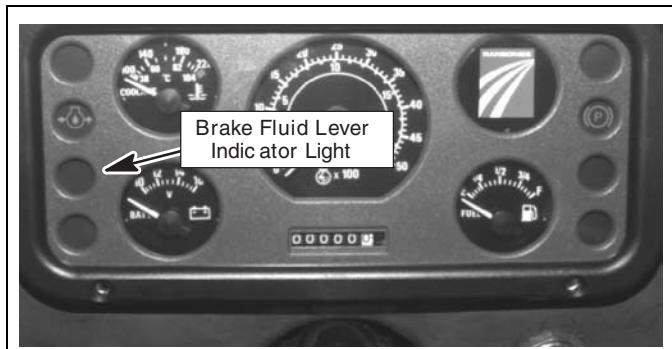


Figure 6L

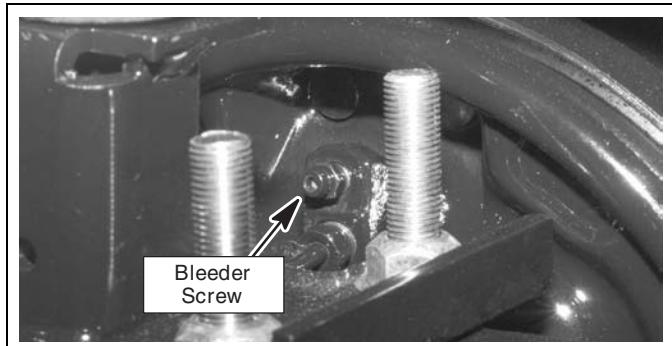


Figure 6M

# 6 MAINTENANCE

## 6.22 DIFFERENTIAL FLUID

The differential fluid should be checked every 100 hours or 3 months. Fluid should be changed after the first 100 hours and every 600 hours (or yearly) thereafter.

Differential Fluid Capacity ..... 5.2 pints (2.5 l)

Fluid Type ..... SAE EP 80-90 Gear Lube

To check differential fluid level, remove the filler plug from the front of the differential. Fluid should be level with the bottom of filler hole.

If fluid is low, add gear lube until fluid begins to leak from hole. Apply pipe thread sealant and install filler plug.

To change differential fluid, remove drain plug from rear of differential.

Allow fluid to drain into a suitable container. Dispose of used fluid properly according to local and state regulations.

Apply pipe thread sealer to drain plug and install.

Fill differential with gear lube until fluid begins to leak from hole. Apply pipe thread sealant and install filler plug.

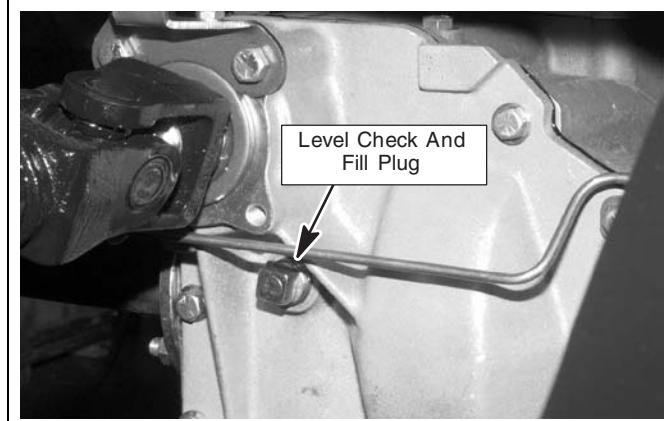


Figure 6N

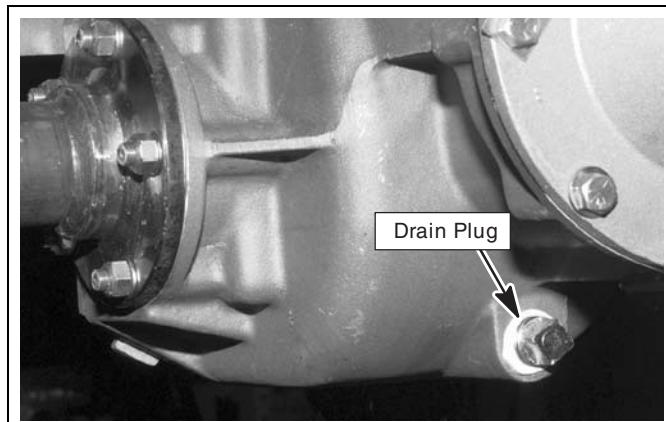


Figure 6O

## 6.23 DIESEL ENGINE MANUAL TRANSMISSION

The transmission fluid should be checked every 100 hours or 3 months. Fluid should be changed every 600 hours (or yearly).

Differential Fluid Capacity ..... 1.35 qts (1.3 l)

Fluid Type ..... SAE EP 80-90 Gear Lube

To check transmission fluid level, remove the filler plug from the front of the transmission. Fluid should be level with the bottom of filler hole.

If fluid is low, add gear lube until fluid begins to leak from hole. Apply pipe thread sealant and install filler plug.

To change fluid, remove drain plug from rear of transmission.

Allow fluid to drain into a suitable container. Dispose of used fluid properly according to local and state regulations.

Apply pipe thread sealer to drain plug and install.

Fill transmission with gear lube until fluid begins to leak from hole. Apply pipe thread sealant and install filler plug.

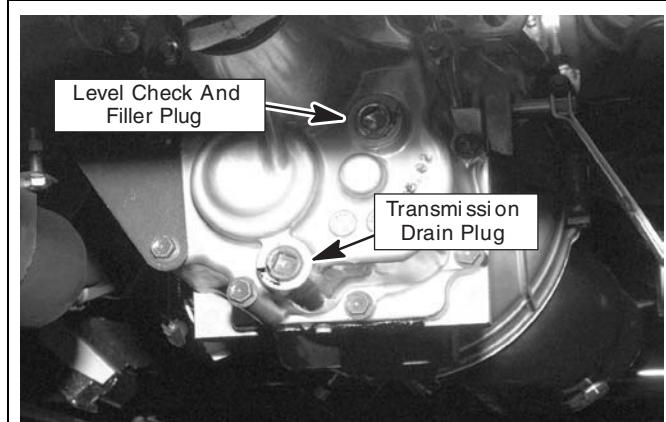


Figure 6P

## 6.24 GAS ENGINE MANUAL TRANSMISSION

The transmission fluid should be checked every 100 hours or 3 months. Fluid should be changed every 600 hours (or yearly).

Differential Fluid Capacity ..... 1.3 qts (1.2 l)

Fluid Type ..... SAE EP 80-90 Gear Lube

To check transmission fluid level, remove the filler plug from the front of the transmission. Fluid should be level with the bottom of filler hole.

If fluid is low, add gear lube until fluid begins to leak from hole. Apply pipe thread sealant and install filler plug.

To change fluid, remove drain plug from rear of transmission.

Allow fluid to drain into a suitable container. Dispose of used fluid properly according to local and state regulations.

Apply pipe thread sealer to drain plug and install.

Fill transmission with gear lube until fluid begins to leak from hole. Apply pipe thread sealant and install filler plug.

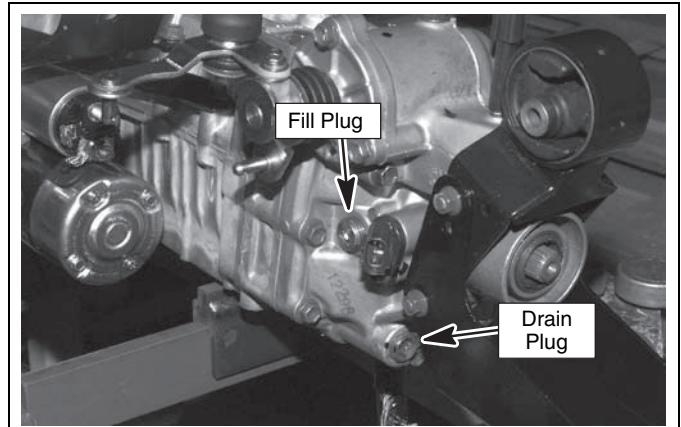


Figure 6Q

## 6.25 GAS ENGINE AUTOMATIC TRANSMISSION

The transmission fluid should be checked every 100 hours or 3 months. Fluid should be changed every 600 hours (or yearly).

Differential Fluid Capacity ..... 3.7 qts (4.2 l)

Fluid Type ..... Mercon / Dexron II

To check transmission fluid level, the engine must be running. Place the gear selector in "P" PARK, apply the parking brake and start the engine.

With engine running, remove the dipstick and wipe it with a clean rag. Insert the dipstick into the extension tube until it contacts the tube. Remove the dipstick and read the fluid level.

Fluid must be kept between the two marks on the dipstick. If fluid is low, add fluid to obtain the proper level.

**Do Not Overfill.** Add fluid using the extension tube as a fill tube.

To change fluid, remove drain plug from bottom of transmission.

Allow fluid to drain into a suitable container. Dispose of used fluid properly according to local and state regulations.

Apply pipe thread sealer to drain plug and install.

Fill transmission until fluid reaches proper mark on dipstick.

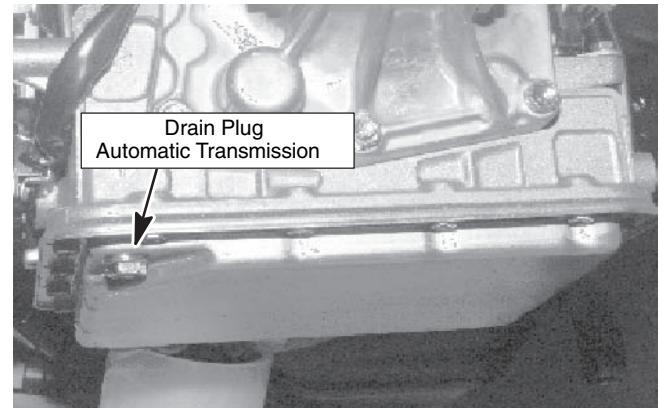
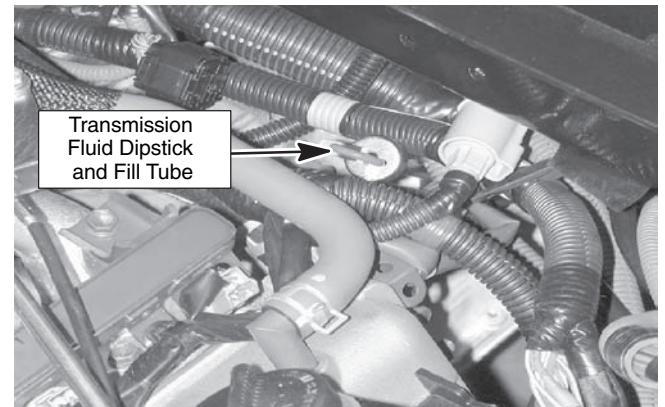


Figure 6R

# 6 MAINTENANCE

## 6.26 ELECTRICAL SYSTEM

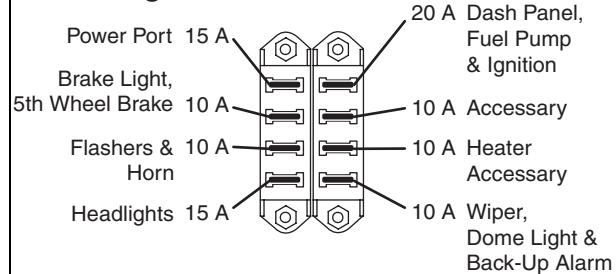
### CAUTION

Always turn the ignition switch off and remove the negative battery cable (Black) before inspecting or working on the electrical system.

General precautions that can be taken to reduce electrical problems are listed below.

1. Make certain all terminals and connections are clean and properly secured.
2. Check the Interlock system, and fuses regularly. If the Interlock does not function properly and the problem cannot be corrected, contact an authorized Jacobsen Dealer.
3. Keep the wire harness and all individual wires away from moving parts to prevent damage.
4. Check the battery and battery charging circuit.
5. Do not wash or pressure spray around electrical connections and components.
6. Circuits are protected by fuses located under the front cowl and a fuse located near the cooling fan.

### Diesel Engine



### Gas Engine

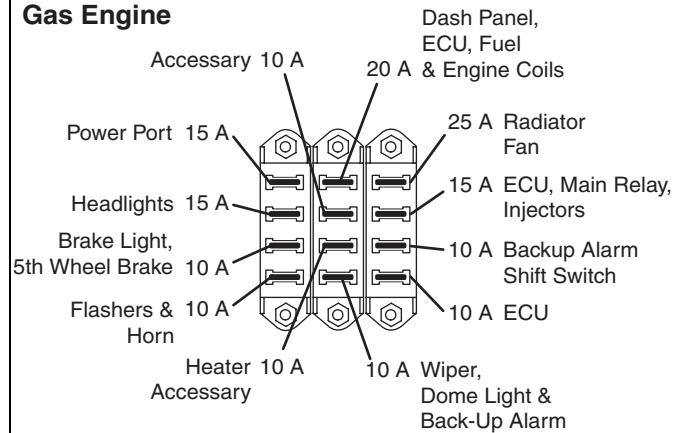


Figure 6S

## 6.27 DASH PANEL

The dash panel contains gauges and instrument lights to display unit functions. Maintenance of the panel is limited to replacing bulbs and setting the DIP switches. Remove the four screws securing the instrument panel to the dash.

Pull panel out, tilt panel forward and disconnect electrical connector for easier access to rear of panel.

### Light Bulb Replacement:

1. Determine which bulb needs to be replaced.
2. Rotate bulb holder 1/4 turn counter-clockwise and pull up and away from dash panel.
3. Replace old bulb with a new bulb of equal type.

Location	Replacement Bulb
A Voltmeter	C658
B Temperature Gauge	C658
C Fuel Gage	C658
D Hour Meter	C658
E Tachometer	C161
F Left Turn Signal	C161
G Oil Pressure	C161
H Glow Plug	C161
J Brake Fluid	C161

K Right Turn	C161
L Parking Brake	C161
M High Beam	C658
N Alternator / Battery	C161

4. Place bulb and holder back into panel. Turn holder 1/4 turn clockwise to secure into panel. Ensure base of holder is properly seated in panel.

**Tachometer DIP Switch Setting:**

The dash panel uses a DIP Switch sequence code to identify the number of input pulses per engine revolution and engine type to correctly display the engine RPM on the tachometer.

If you are replacing the dash panel or if the tachometer is not operating correctly, check to be sure the sequence code is set correctly.

The Truckster with a Perkins Diesel engine uses the following sequence code for 8.5 pulses / revolution.

Perkins Diesel Sequence Code: 0 0 0 1 0 0 0 0

The truckster with a Suzuki Gas engine uses the following sequence code for 1.5 pulses / revolution.

Suzuki Gas Sequence Code: 0 0 0 0 0 0 1 0

Using a small blade screwdriver or similar tool, push the switch levers either up or down to match the sequence code for this unit.

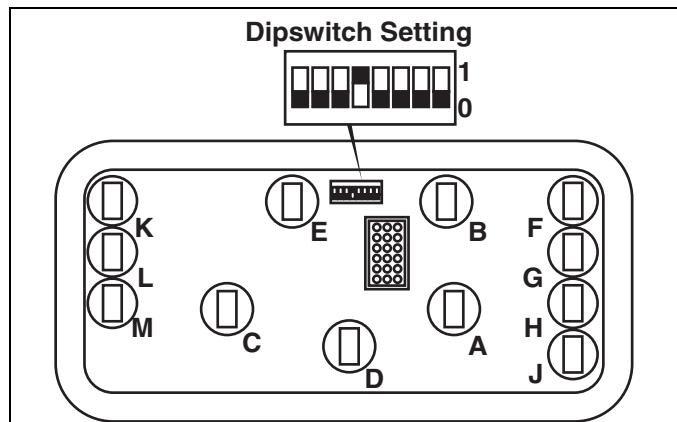


Figure 6T

**6.28 HEADLIGHT REPLACEMENT**

The headlight should be replaced as soon as it stops functioning or is damaged. The headlight is a sealed unit and can only be replaced as a complete unit.

Description .....	Bulb Type	Jacobsen Part No.
Headlight.....	H6545	837303

1. Disconnect the negative battery cable.
2. Remove the four screws securing the headlight bezel to the front cowl.
3. Pull headlight and bezel forward, out of the front clip opening.
4. Disconnect the electrical connector from the rear of the headlight,

5. Remove the headlight from the bezel. Properly dispose of old bulb.
6. Install new headlight in reverse order of removal.

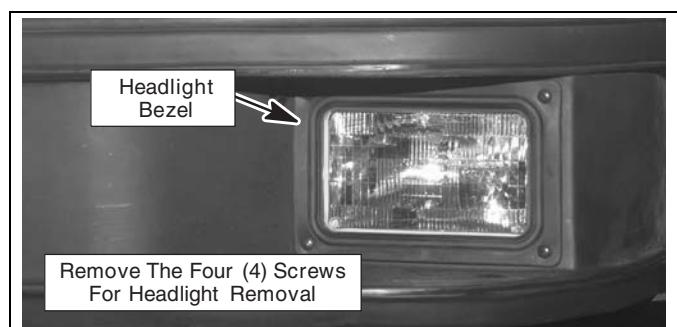


Figure 6U

**6.29 TAIL LIGHT REPLACEMENT**

The tail light should be repaired as soon as it stops functioning or is damaged. The tail light bulb, and lens are replaceable components. Damage to the body of the tail light requires a complete replacement.

Description .....	Bulb Type	Jacobsen Part No.
Tail light bulb.....	1157	822049

1. Remove the two screws securing lens. Remove lens and gasket.
2. Push bulb in, turn 1/4 turn and remove bulb. Dispose of old bulb properly.
3. Install new bulb in reverse order of removal. Ensure lens gasket is properly positioned.
4. To remove complete tail light assembly, remove two nuts and shake proof washer securing tail light to

frame. Disconnect harness and remove tail light from frame.

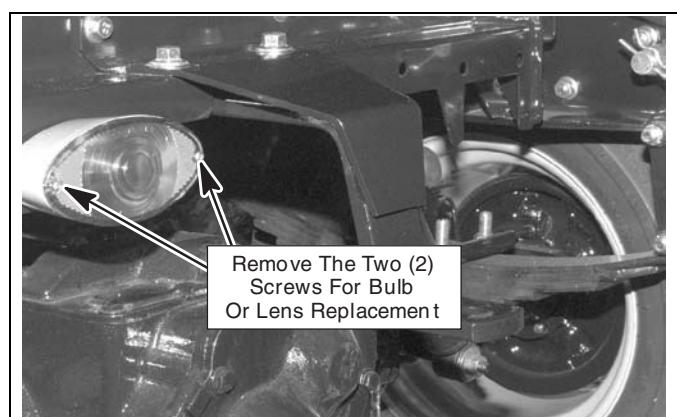


Figure 6V

## 6 MAINTENANCE

### 6.30 EFI DIAGNOSTIC CHECK

#### Suzuki Gas Engine units only

The electrical system is equipped with a plug in connector which, when used with the diagnostic jumper accessory (Part No. 2700920) will perform diagnostic checks on various engine components.

**Manual transmission:** Engage parking brake, shift transmission to neutral and turn the ignition switch to the OFF position.

**Automatic Transmission:** Engage parking brak, place gear selector in PARK and turn the ignition switch to the OFF position.

Open the front cowl and locate the plug in connector (Black/White and Black Wires) coming from the wire harness below the brake fluid reservoir.

To run the diagnostic test, plug the diagnostic jumper into the plug-in connector. Turn ignition switch to the ON

position. The brake fluid light at the lower left corner of the dash panel will flash a diagnostic code.

The first digit of the code will be given first with a full second pause between each 0.3 second flash, followed by the second digit with no pause.

A code of 12 (System Normal) would turn the light on for 0.3 seconds, a full second pause then two fast flashes. **(Flash-Pause-Flash-Flash)**

A code of 46 (Shift swicth) would turn the light on four times for 0.3 seconds and a full second pause, then six fast flashes. **(Flash-Pause-Flash-Pause-Flash-Pause-Flash-Pause-Flash-Flash-Flash-Flash-Flash)**

The following list shows **which code number corresponds to which component and list possible causes for each fault.**

Code	Engine Component	Possible Causes
11	Pressure Sender	Voltage at pin 25 (Green/Yellow wire) of the 34 pin ECU connector is higher than 4.5 Volts or lower than 0.19 Volts.
12	Normal	System operating normally
13	Throttle Sensor	Voltage at pin 33 (Gray/Yellow wire) of the 34 pin ECU connector is higher than 4.73 Volts or lower than 0.25 Volts
14	O2 Sensor	No signal for a length of time at pin 24 (Red/Blue wire) of the 34 pin ECU connector
15	Crank Angle Sensor	While in starting mode, no signal is seen at pin 16 (Brown/Red wire) of the 34 pin ECU connector
16	Vehicle Speed Sensor	No signal for a length of time at pin 16 (Orange wire) of the 26 pin ECU connector
19	Water Temperature Sensor	Voltage at pin 32 (Green/White wire) of the 34 pin ECU connector is higher than 4.85 Volts or lower than 0.15 Volts.
41	Shift Solenoid #1 (Automatic Transmission only)	Open or short circuit at pin 27 (Blue/Black wire) of the 34 pin ECU connector. Should be 12 Volts if gear selector is in the "L" position.
42	Shift Solenoid #2 (Automatic Transmission only)	Open or short circuit at pin 28 (Blue/White wire) of the 34 pin ECU connector. Should be 12 Volts if gear selector is in the "L" or "2"position.
43	Shift Solenoid #3 (Automatic Transmission only)	Open or short circuit at pin 29 (Blue/Red wire) of the 34 pin ECU connector.
46	Shift Switch (Automatic Transmission only)	No signal present at pin 18 (Green/Pink wire), <b>and</b> pin 19 (Orange Blue wire), <b>and</b> pin 20 (Orange/Green wire), <b>and</b> pin 24 (Green/Blue wire), <b>and</b> pin 25 (Green wire) <b>and</b> pin 26 (Red wire) of the 26 pin ECU connector. <b>OR</b> signal present at more than one of pins 18, 19, 20, 24, 25 and 26 of the 26 pin ECU connector

## 6.31 CARE AND CLEANING

Wash the vehicle after each use. Keep the equipment clean.

**Note:** Do not wash any portion of the equipment while it is hot. Do not use high pressure spray or steam. Use cold water and automotive cleaners.

1. Use compressed air to clean engine and radiator fins. A special blow gun is available through Jacobsen Dealer.
2. Use only fresh water for cleaning your equipment.

**Note:** Use of salt water or affluent water has been known to encourage rust and corrosion of metal parts resulting in premature deterioration or failure. Damage of this nature is not covered by the factory warranty.

3. Do not spray water directly at the dash panel, ignition switch, controls or any other electrical components, or at bearing housings and seals.
4. Clean all plastic or rubber trim with a mild soap solution or use commercially available vinyl/rubber cleaners.

Repair damaged metal surfaces and use Jacobsen touch-up paint. Wax the equipment for maximum paint protection.

### CAUTION

Clean grass and debris from drives, muffler and engine to prevent fires.

## 6.32 STORAGE

### General

1. Wash the vehicle thoroughly and lubricate. Repair and paint damaged or exposed metal.
2. Inspect the vehicle, tighten all hardware, replace worn or damaged components.
3. Drain and refill radiator.
4. Clean the tires thoroughly and store the vehicle so the load is off the tires. If vehicle is not on jack stands, check tires at regular intervals and reinflate as necessary.
5. Keep the machine and all its accessories clean, dry and protected from the elements during storage. Never store equipment near an open flame or spark which could ignite fuel or fuel vapors.

### Battery

1. Remove, clean and store battery in upright position on a non-conductive surface (wood) in a cool, dry place. To prevent accelerated discharge, do not store battery on concrete or steel surface.
2. Check and recharge battery every 60 to 90 days while in storage.
3. To reduce the self discharge rate, room temperature should not be above 80°F (27°C) or fall below 20°F (-7°C) to prevent electrolyte from freezing.

### Engine (General)

1. While the engine is warm, remove the drain plug, drain the oil from the crankcase and change oil filter. Install drain plug and refill with fresh oil. Let engine cool before storing.
2. Clean exterior of engine. Paint exposed metal, or apply a light coat of rust preventative oil.

Add a fuel conditioner or biocide to prevent gelling or bacterial growth in fuel. See your local fuel supplier.

If storing indoors, drain fuel from tank.

Close fuel shut off valve.

### After Storage

1. Check and reinstall battery
2. Check or service fuel filter and air cleaner.
3. Check the radiator coolant level.
4. Check oil level in the engine crankcase.
5. Fill the fuel tank with fresh fuel. Open fuel shut off valve and bleed the fuel system.
6. Remove antifreeze mixture from sprayer pump.
7. Assembly boom hoses, no-drip valves, nozzle tips and strainers.
8. Make certain that the tires are properly inflated.
9. Start and operate the engine at 1/2 throttle. Allow enough time for the engine to become properly warmed and lubricated.

### WARNING

Never operate the engine without proper ventilation; exhaust fumes can be fatal when inhaled.

# 7 TROUBLESHOOTING

---

## 7.1 GENERAL

The troubleshooting chart below lists basic problems that may occur during start-up and operation. For more

detailed information regarding the electrical system contact your area Jacobsen Dealer.

Symptoms	Possible Causes	Action
Engine will not start.	<ol style="list-style-type: none"><li>1. Clutch pedal not depressed.</li><li>2. Battery low on charge or defective.</li><li>3. Fuel tank empty or dirty. Fuel shut off valve closed</li><li>4. Fuse blown.</li></ol>	<ol style="list-style-type: none"><li>1. Check start-up procedure.</li><li>2. Inspect condition of battery and battery connections.</li><li>3. Fill with fresh fuel. Change fuel filter. Bleed fuel lines. Open fuel shut off valve</li><li>4. Replace fuse.</li></ol>
Engine hard to start or runs poorly.	<ol style="list-style-type: none"><li>1. Fuel level low, fuel or fuel filter dirty.</li><li>2. Air cleaner dirty.</li><li>3. Injectors, fuel pump</li><li>4. Engine problem.</li></ol>	<ol style="list-style-type: none"><li>1. Fill with fresh fuel. Change fuel filter. Bleed fuel lines.</li><li>2. Inspect and replace air filter.</li><li>3. Consult engine manual.</li><li>4. Consult engine manual</li></ol>
Engine stops.	<ol style="list-style-type: none"><li>1. Fuel tank empty.</li></ol>	<ol style="list-style-type: none"><li>1. Fill with fresh fuel and bleed fuel lines.</li></ol>
Engine overheating	<ol style="list-style-type: none"><li>1. Coolant level low.</li><li>2. Air intake restricted.</li><li>3. Water pump belt broken or loose.</li><li>4. Engine overload</li></ol>	<ol style="list-style-type: none"><li>1. Inspect and add coolant.</li><li>2. Clean cooling air intake.</li><li>3. Tighten or replace belt.</li><li>4. Reduce forward speed</li></ol>
vehicle does not react to throttle pedal	<ol style="list-style-type: none"><li>1. Parking brake engaged</li><li>2. Transmission in Neutral</li><li>3. Clutch Pedal Depressed</li></ol>	<p>Disengage parking brake. Depress brake and clutch pedals. Shift to proper gear for desired ground speed. Release brake pedal. Slowly let out clutch while pressing the throttle pedal Slowly let out clutch pedal</p>

## 8.1 GENERAL



### WARNING

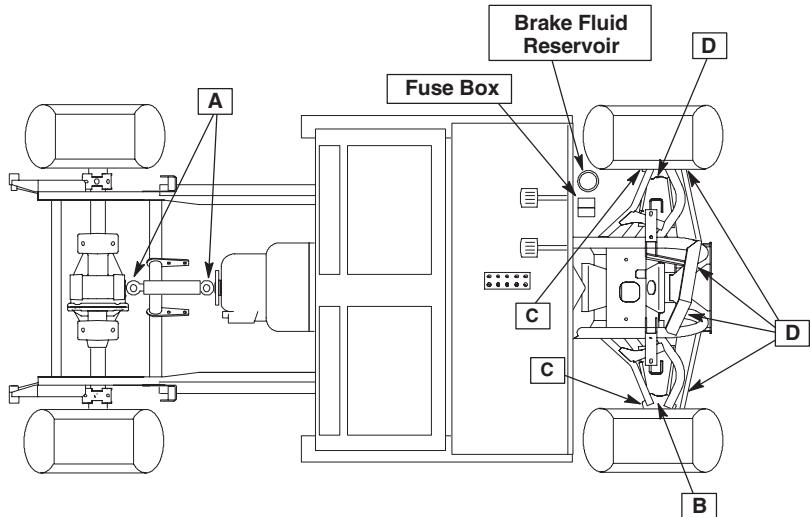
Before you clean, adjust, or repair this equipment, disengage all drives, lower implements to the ground, engage parking brake, stop engine and remove key from ignition switch to prevent injuries

1. Always clean the grease fitting before and after lubricating.

2. Lubricate with grease that meets or exceeds NLGI Grade 2 LB specifications. Apply grease with a manual grease gun and fill slowly until grease begins to seep out. Do not use compressed air guns.
3. For smooth operation of all levers, pivot points and other friction points that are not shown on the lubrication chart apply several drops of SAE 30 oil every 40 hours or as required.
4. Grease fittings every 100 hours. Do not over grease drive shaft fittings (A). Too much grease will damage the seals.

## 8.2 LUBRICATION CHART

Fitting	Description	Qty
A	Drive Shaft	2
B	Upper Ball Joints	2
C	Lower Ball Joints	2
D	Tie Rod Ends	4



# 8 MAINTENANCE & LUBRICATION CHARTS

## 8.3 MAINTENANCE CHARTS

### Recommended Service and Lubrication Intervals

	Daily	First 35 Hours	Every 75 Hours or 2 Months	Every 100 Hours or 3 Months	Every 200 Hours or 6 Months	Every 400 Hours or 9 Months	Every 600 Hours or 12 Months	See Section	Lubricant Type
Air Filter					R**			6.8	
Alternator							I		
Battery			I				C	6.10	
Belts	I-A*			I-A			I-A	4., 5.2	
Brake Fluid				I-A				6.21	VI
Brake Linings		I-A*		I-A			I-A		
Clutch				I-A					
Cooling System	I-C-A				I	R		6.7	IV
Differential Fluid				I-R*			R	6.22	III
Electrical System		I*		I				6.26	
Engine Glow Plugs							I		
Engine Idle Speed		I*					I		
Engine Noise / Vibration	I								
Engine Oil (Suzuki)	I	R*****		R**				6.3	
Engine Oil (Perkins)	I	R*	R**					6.3	II
Engine Oil Filter	I	R*****		R**				6.3	
Engine Oil Filter	I	R*	R**					6.3	
Engine Valve Clearance		I****				I****			
Fluid Leaks	I-R								
Fuel System		I*					I	6.15	
Fuel Filter				R				6.15	
Fuel Water Separator (Diesel Only)	I-C								
Governor Fluid				I-A					
Hydraulic Filter							R		
Hydraulic Fluid				I-A					
Injection Pump / Timing							I		
Lubricate Chassis				L			L	8.2	I
Muffler and Exhaust	I			I				6.5	
Radiator Screens	I-C/AR							6.7	
Power Steering Fluid		I*		I				6.4	V
Spark Plugs (Gas only)							C-A-R		
Starter Motor Brushes							I		
Tires	I	I-A						6.16	
Transmission Fluid (Manual Transmission)				I			R	6.23 6.24	III
Transmission Fluid (Automatic Transmission)				I			R	6.25	VII
Wheel Bearings							Repack		

**A - Add or Adjust    C - Clean    I - Inspect    L - Lubricate    R - Repair or Replace    AR - As Required**

# MAINTENANCE & LUBRICATION CHARTS 8

---

**Notes:**

- \* Indicates initial service for new machines.
- \*\* Depending on operating conditions, engine oil, oil filter and air filter may require more frequent replacement.
- \*\*\* Inspect visible hoses and tubes for leaks or oil marks.
- \*\*\*\* Must be done at Authorized Dealer
- \*\*\*\*\* Change oil and filter on Suzuki Engines after first fifty hours

**Common Replacement Parts:**

- Engine Air Filter - 840352
- Diesel Engine Oil Filter - 842553
- Gas Engine Oil Filter - 2701809
- Diesel Engine Fuel Filter - 2208175
- Gas Engine Fuel Filter - 2701898
- Diesel Engine Alternator Belt - 600997
- Diesel Engine Hydraulic Pump Belt - 841966
- Gas Engine Alternator-Power Steering Belt - 4115406
- Gas Engine Hydraulic Pump Belt - 4115404
- NGK 3932 (DCPR7E) Spark Plug - 4119606
- Denso XU22EPR-U Spark Plug - 2701832

**Lubricants**

- I Manual grease gun with NLGI Grade 2 (Service Class LB).
- II Engine Oil - See Section 6.3
- III SAE EP 80-90 Gear Lube
- IV Capacity: 3qt. (2.8 l) 50/50 water ethylene glycol mix
- V GM Power Steering Fluid
- VI DOT 3 Brake Fluid
- VII Mercon/Dextron II Automatic Transmission Fluid

## 9 NOTES

---

---

## 10.1 TABLE OF CONTENTS

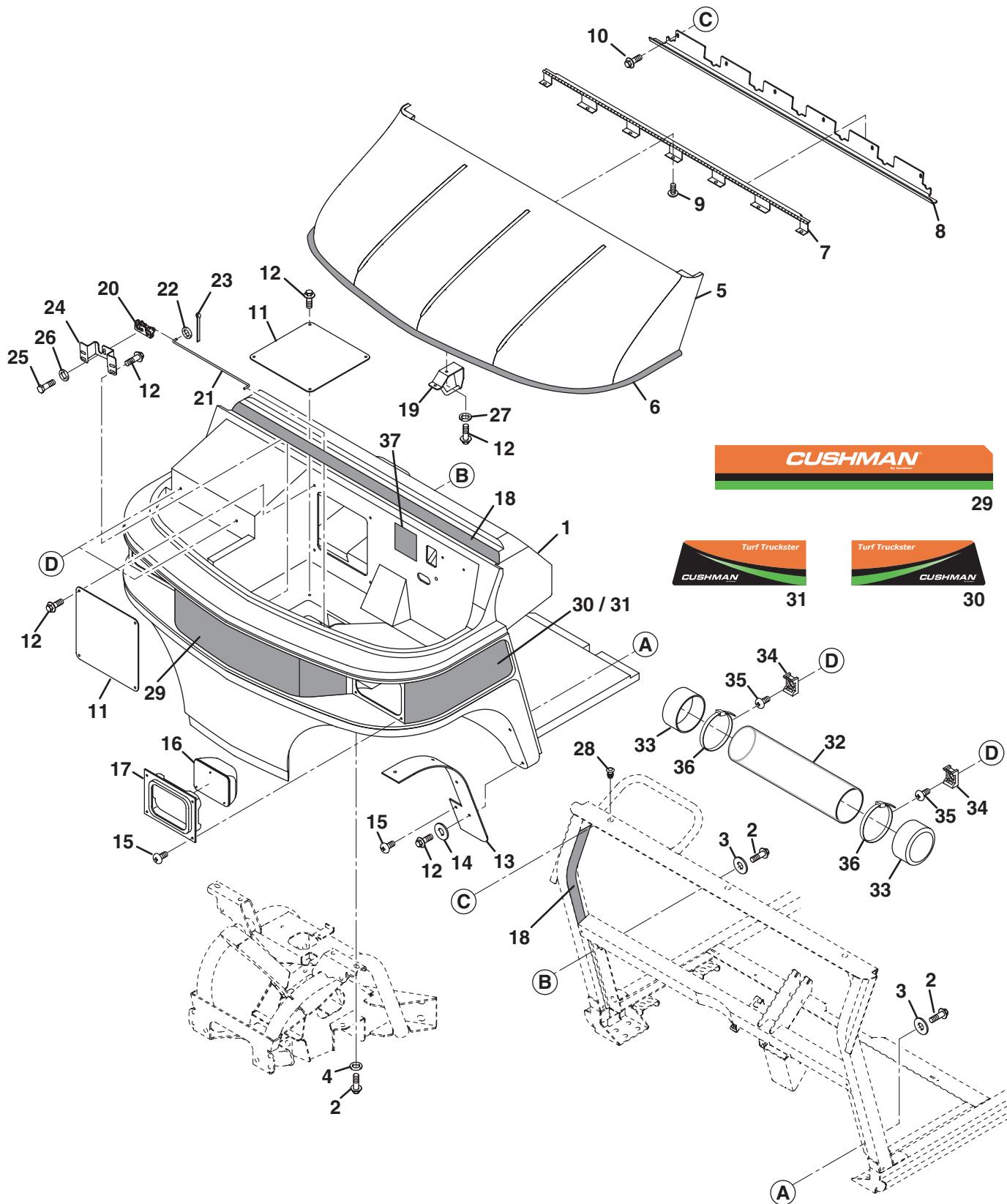
---

1.1.....Front Body .....	38
2.1.....Engine Cover .....	40
3.1.....Upper ROPS .....	42
4.1.....Throttle Control .....	44
5.1.....Control Console .....	46
6.1.....Parking Brake and High-Low Speed Control..	48
7.1.....Brake Pedal .....	50
8.1.....Clutch Pedal Linkage.....	52
9.1.....Manual Transmission Shifter Linkage .....	54
10.1.....Automatic Transmission Shifter.....	56
11.1.....Automatic Transmission Oil Cooler .....	57
12.1.....Frame Attachments .....	58
13.1.....Frame, Lower ROPS and Platform .....	60
14.1.....Rear Axle .....	62
15.1.....Front Control Arms .....	64
16.1.....Steering Linkage .....	66
17.1.....Front Brakes .....	68
18.1.....Steering Column .....	70
19.1.....Diesel Radiator.....	72
20.1.....Gas Radiator.....	74
21.1.....Diesel Engine and Transmission Mounting ...	76
22.1.....Gas Engine and MT Mounting .....	78
23.1.....Gas Engine and AT Mounting .....	80
24.1.....Diesel Engine and Clutch.....	82
25.1.....Suzuki Gas Engine.....	84
26.1.....Engine Speed Control .....	86
27.1.....Exhaust .....	87
28.1.....Governor Linkage .....	88
29.1.....Governor .....	90
30.1.....Gas Engine Remote Oil Fill .....	92
31.1.....Gas Engine Exhaust .....	93
32.1.....Diesel Fuel System .....	94
33.1.....Gas Fuel System .....	96
34.1.....Hydraulic Tank and Filter .....	98
35.1.....Hydraulic Pump and Filter .....	100
36.1.....Lift Cylinder Circuit.....	102
37.1.....Diesel Electrical Components .....	104
38.1.....Gas Electrical Components .....	106
39.1.....Differential Assembly .....	108
40.1.....Differential Housing .....	110
41.1.....Axle Tubes and Shafts .....	112
42.1.....Front and Shifter Cover .....	114
43.1.....Input, Main and Jack Shafts.....	116
44.1.....Transmission Clutch Release-Shift Selector	118
45.1.....Transmission Case .....	120
46.1.....Input and Main Shaft.....	122
47.1.....Gear Shift Fork Linkage .....	124
48.1.....Diesel Engine Electrical Schematic .....	126
49.1.....Diesel Engine Main Harness .....	130
50.1.....Diesel Engine and Fan Harness .....	132
51.1.....Gas Engine Electrical Schematic .....	134
52.1.....Gas Engine Schematic .....	138
53.1.....Gas Main Harness .....	140
53.1.....Gas Main Harness (Continued).....	142

# TURF TRUCKSTER

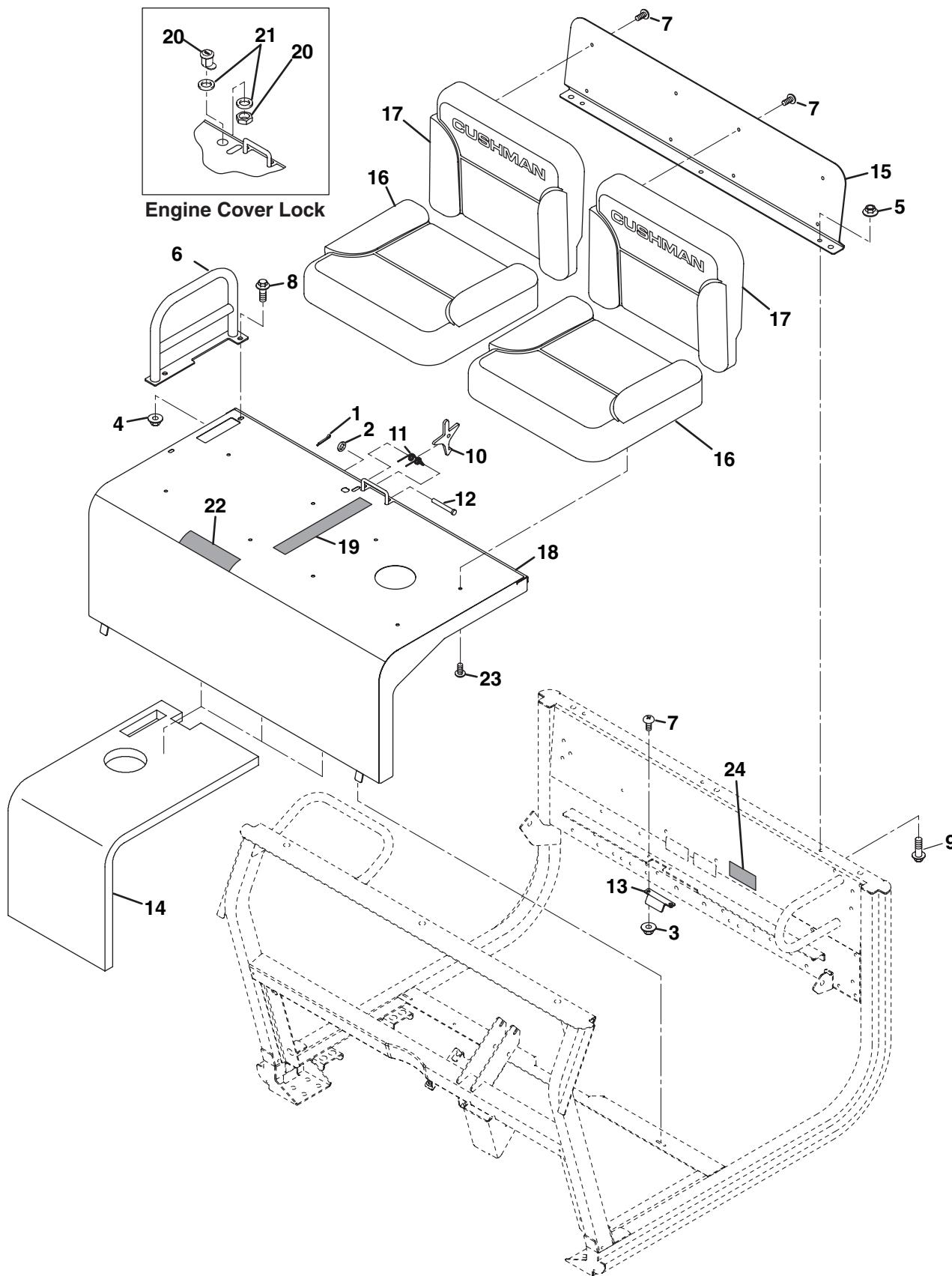
## 1.1 Front Body

Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2700792	1	Front Clip	
2	800930	6	Screw, M8-1.25 x 16 mm Hex Flange	
3	548159	4	Flat Washer, 5/16 x 1-1/4"	
4	450400	2	Washer, M8	
5	601940G05	1	Hood, Orange	
6	601939	AR	Weather Seal	
7	841477G01	1	Hinge, Hood	
8	841637	1	Angle, Front Clip Mounting	
9	450541	7	Screw, M6-1 x 16 mm Round Head	
10	112050	6	Screw, 1/4-20 x 5/8" Taptite	
11	841913	2	Plate, Access	
12	800934	22	Screw, M6-1 x 16 mm Hex Flange	
13	4139691	2	Flap, Mud	
14	548175	8	Flat Washer, 1/4 x 1-1/4"	
15	800943	10	Screw, #10-14 Self Tapping	
16	837303	2	Headlight, Rectangular	
17	841428	2	Bezel, Headlight	
18	828382	AR	Seal, Foam	
19	894030	1	Striker, Hood	
20	2702198	1	Latch, Hood	
21	841715	1	Rod, Hood Release	
22	303952	1	Flat Washer, #10	
23	306463	1	Cotter Pin, 1/16 x 1/2"	
24	841753	1	Bracket, Hood Latch	
25	306419	2	Screw, 1/4-20 x 1/2" Hex Head	
26	306488	2	Lockwasher, 1/4" Shakeproof	
27	450410	2	Lockwasher, M6	
28	844293	3	Plug, Panel	
29	74765G01	1	Decal, Cushman	
30	74793G01	1	Decal, Left Side Turf Truckster	
31	74767G01	1	Decal, Right Side Turf Truckster	
32	38541	1	Tube, Clear Document	
33	38061A	2	Cap, Vinyl	
34	840508	2	Mount, Cable Tie	
35	800344	2	Screw, #10 Type AB Self Tapping	
36	823549	2	Cable Tie, 15-1/2"	
37	2703158	1	Decal, Fuses	Diesel Engine
37	4117221	1	Decal, Fuses	Gas Engine

> Change from previous revision

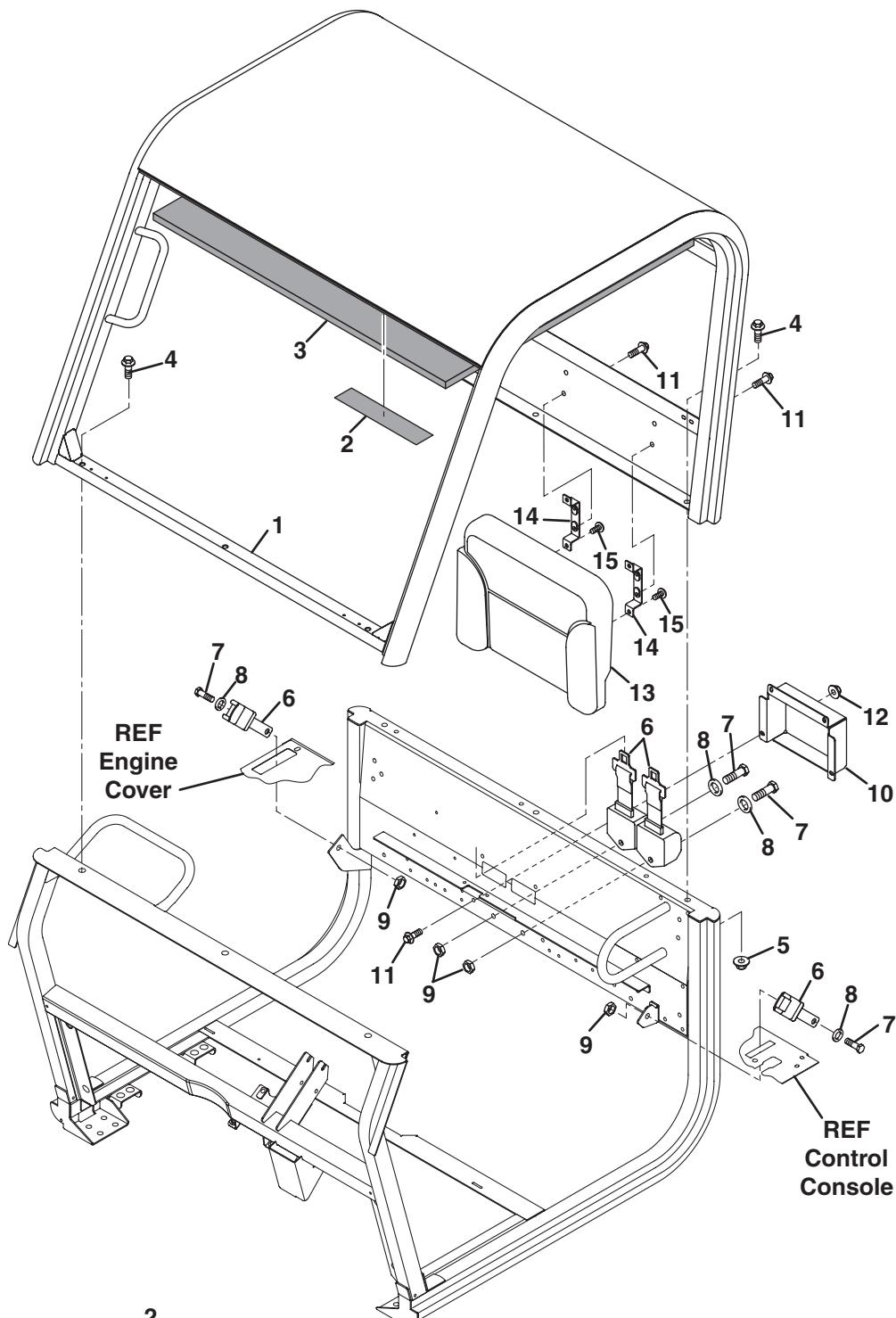


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	306328	1	Cotter Pin, 3/32 x 3/4"	
2	308090	1	Washer, 1/4	
3	450452	2	Nut, M6-1 Hex Flange	
4	450453	2	Nut, M8-1.25 Hex Flange	
5	450454	3	Nut, M10-1.5 Hex Flange	
6	893541	1	Handold, Right Side	
7	450541	10	Screw, M6-1 x 16 mm Hex Flange	
8	452388	2	Screw, M8-1.25 x 20 mm Hex Flange	
9	452398	3	Screw, M10-1.5 x 20 mm Hex Flange	
10	523085	1	Latch, Engine Cover	
11	816401	1	Spring, Torsion	
12	830784	1	Clevis Pin, 1/4 x 1-7/8"	
13	2702199	1	Catch, Engine Latch	
14	841804	1	Insulation, Engine Cover	
15	842030	1	Mount, Backrest	
16	601937	2	Seat Base	
17	893322	2	Backrest	
18	893375-G05	1	Cover, Engine	
19	845038	1	• Decal, Operation	
20	840436	1	Lock, Engine Cover	Optional, Required in Europe
21	309488	2	Washer	Optional, Required in Europe
22	845234	1	Decal, Ground Speed	Diesel Engines
22	845232	1	Decal, Ground Speed	Gas Engine, MT
22	845231	1	Decal, Ground Speed	Gas Engine, AT
23	800263	8	Screw, 1/4-20 x 1-1/4"	
24	36085G01	1	Decal, Carb Suzuki K6	

&gt; Change from previous revision

## 3.1 Upper ROPS

Serial No. 84054 All



PART NUMBER: 893146 Meets SAE: J1040 MAY94

Only to be used on Cushman and EZ-GO truck models  
with matching lower structure

Manufactured by E-Z-GO a Textron Company  
1451 Marvin Griffin Rd. Augusta, Georgia 30906

### ▲ WARNING ▲

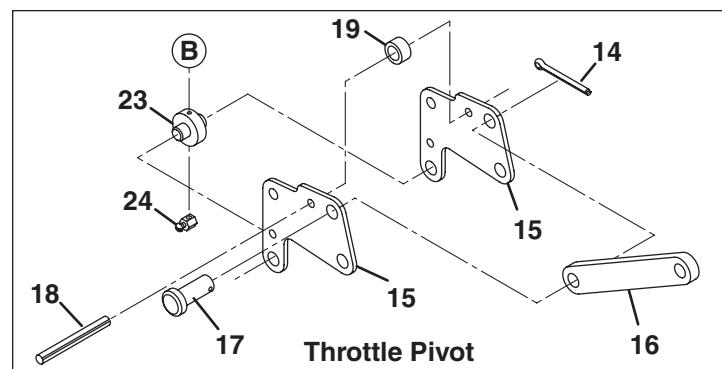
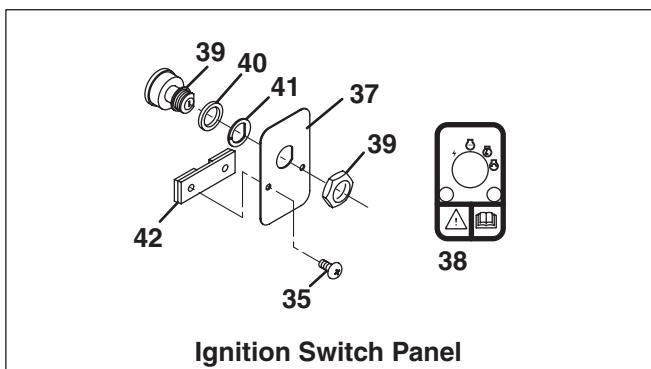
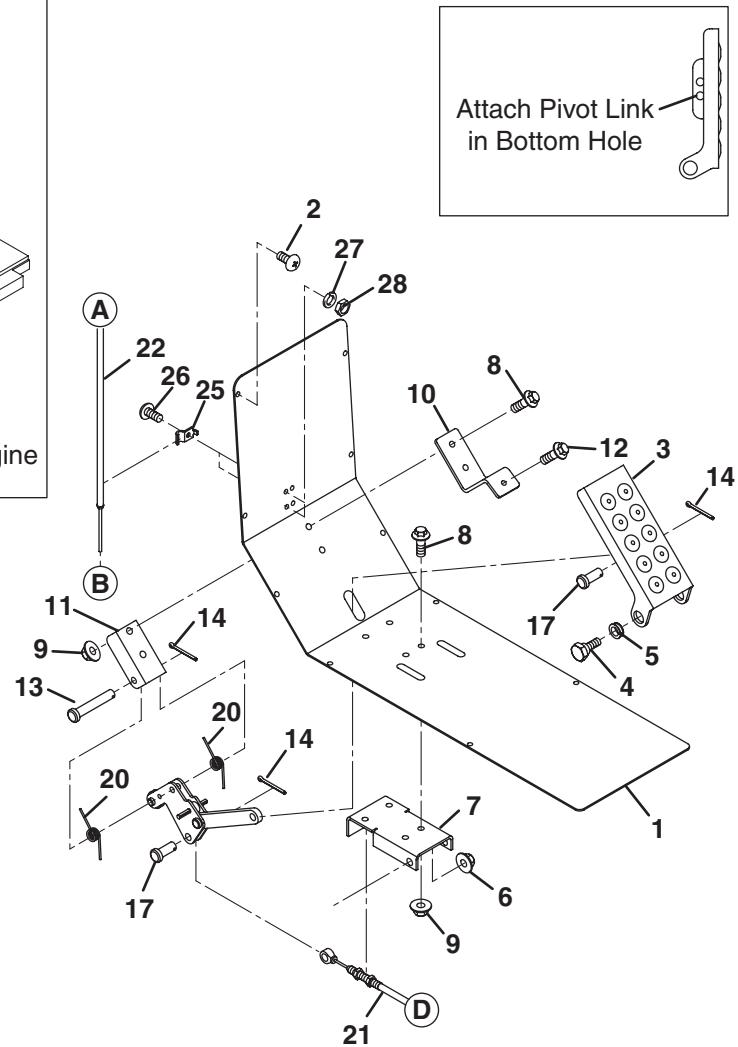
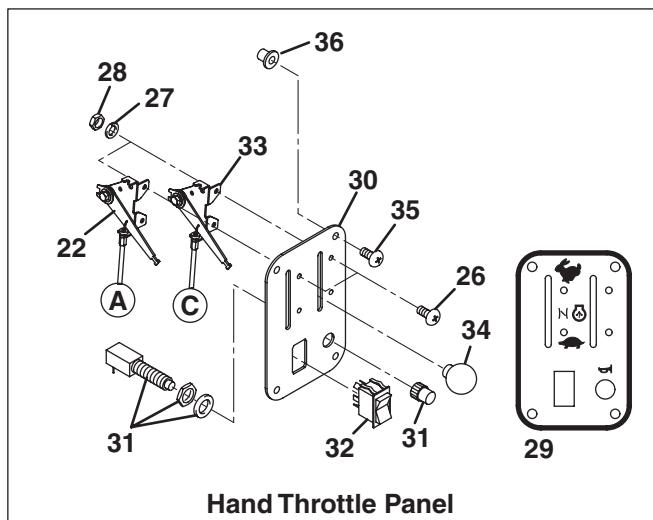
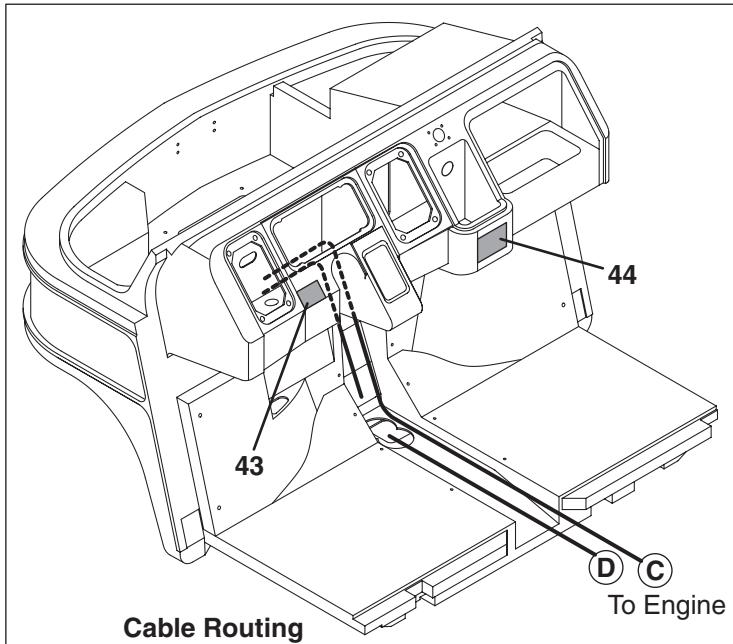
The protection offered by this ROPS will be impaired if it has  
been subjected to any modification or structural damage.  
This ROPS must be replaced after a rollover. Seat belts must  
be worn at all times.

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	36097-G01	1	Upper ROPS	
2	36091-G01	1	• Decal, Warning and ROPS Cert.	
3	844988	1	Foam, 1/2" Perforated ROPS	
4	452411	6	Screw, M12-1.75 x 40 mm Flange	
5	450455	3	Nut, M12-1.75 Hex Flange	
6	4140269	2	Seat Belt Assembly	
7	N/S	2	• Screw, 7/16-20 x 1" Hex Head	
8	N/S	2	• Flat Washer, 7/16	
9	N/S	2	• Nut, 7/16-20 Hex	
10	841799	1	Guard, Seat Belt	
11	800930	12	Screw, M8-1.25 x 16 mm Flange	
12	450453	4	Nut, M8-1.25 Hex Flange	
13	REF	1	Backrest	See 2.1
14	893632	4	Support, Backrest	
15	450541	8	Screw, M6-1 x 16 mm Pan Head	

&gt; Change from previous revision

## 4.1 Throttle Control

Serial No. All



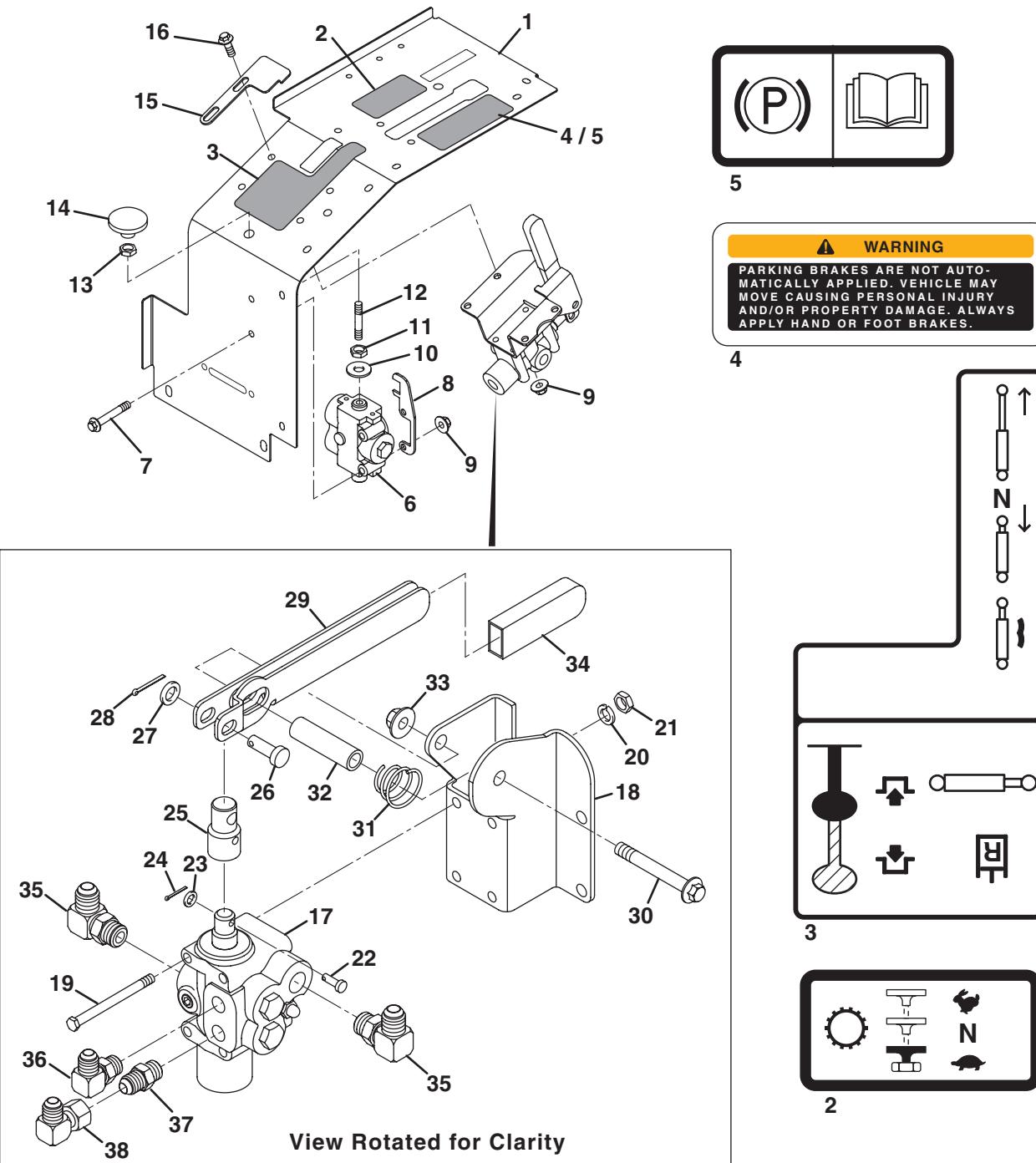
All Views Rotated 90° for Clarity

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	841663	1	Panel, Floor Access	
2	800943	10	Screw, #10-14 x 5/8" Self Tapping	
3	894159	1	Pedal, Throttle	
4	524633	2	Bolt, 5/16-18 x 1" Shoulder	
5	524643	2	Bearing, Split	
6	548911	2	Nut, 5/16-18 Flange	
7	2703257.7	1	Bracket, Foot Throttle	
8	452378	6	Screw, M6-1 x 20 mm Flange	
9	450452	6	Nut, M6-1 Flange	
10	843997	1	Bracket, Pedal Stop	
11	843562	1	Mount, Channel	
12	452695	1	Screw, M6-1 x 20 mm Self Tapping	
13	830784	1	Clevis Pin, 1/4 x 1-7/8"	
14	306328	4	Cotter Pin, 3/32 x 3/4"	
15	843563	2	Plate, Pivot	
16	843561	1	Link, Throttle Pivot	
17	806714	3	Clevis Pin, 5/16 x 3/4"	
18	844224	2	Roll Pin, 3/16 x 1-3/4"	
19	515268	2	Bushing	
20	844223	2	Spring, Torsion	
21	REF	1	Throttle Cable	See 26.1 or See 28.1
22	828049	1	Throttle, Hand	
23	843607	1	Bushing, Throttle Cable	
24	817104	1	Stop, Wire	
25	111898	2	Clamp, Cable	
26	800271	6	Screw, #10-24 x 1/2" Pan Head	
27	120052	6	Lockwasher, #10	
28	306531	6	Nut, #10-24 Hex	
29	844116	1	Decal, Speed Control Panel	
30	841264	1	Panel, Speed Control	
31	830366	1	Switch, Horn	
32	843581	1	Switch, Light	
33	REF	1	Cable, Governor Control	See 26.1 or See 29.1
34	827821	2	Knob	
35	800582	6	Screw, 1/4-10 x 3/4" Truss Head	
36	2700496	4	Insert, 1/4-20 Threaded	
37	2701850.7	1	Panel, Ignition Switch	
38	2702014	1	Decal, Ignition Switch Panel	
39	837295	1	Ignition Switch	
40	837299	1	Spacer, 3/32"	
41	837300	1	Spacer, 1/16"	
42	2702012	1	Strap Nut, 1/4-20 x 2"	
43	821071	1	Decal, Not Motor Vehicle Notice	
44	29165G01	1	Decal, Off Road Use	

&gt; Change from previous revision

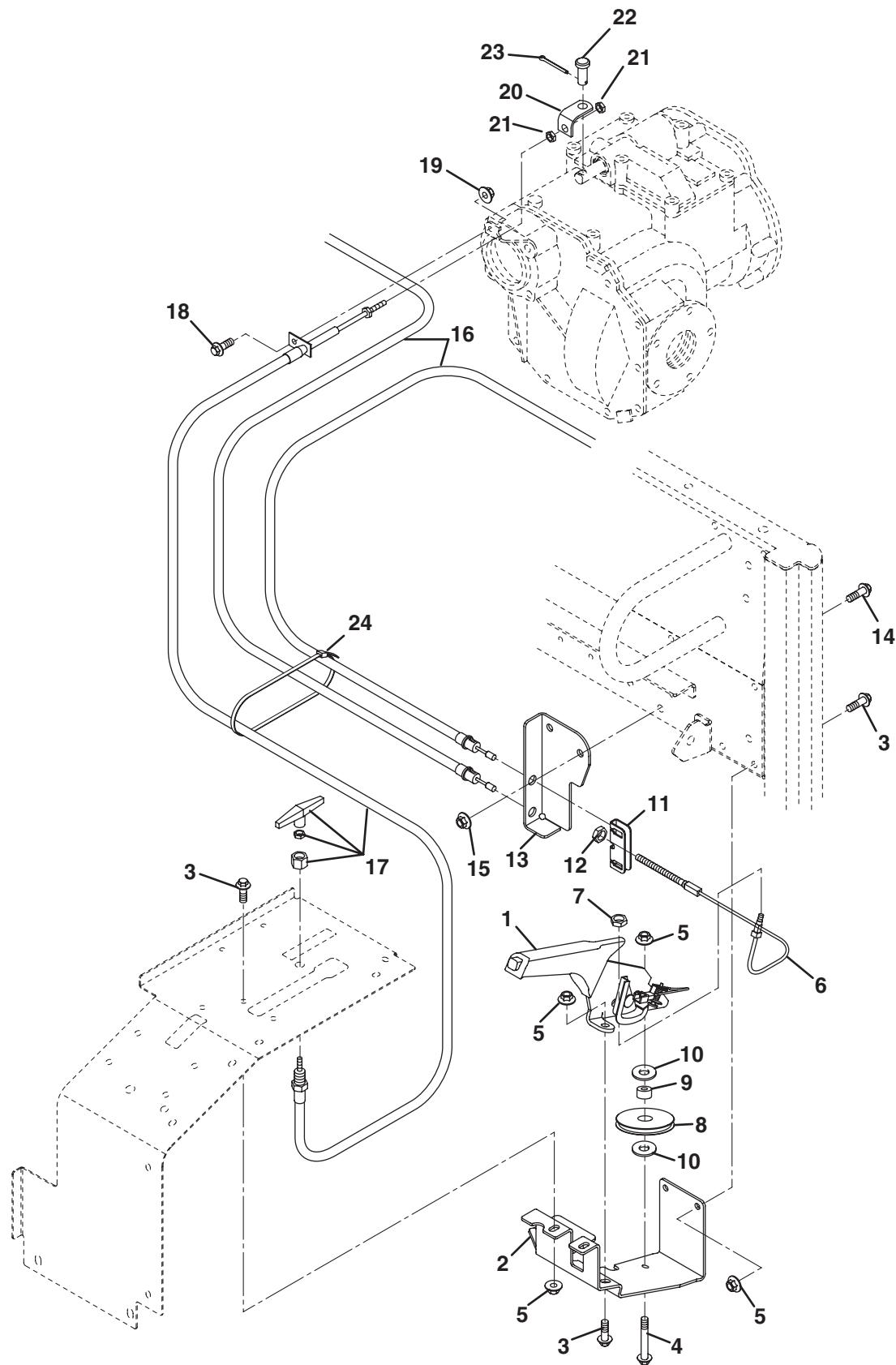
## 5.1 Control Console

Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2700796	1	Console	Used on all, except 84044
1	2700797	1	Console, EC	Used on 84044 Only
2	844177	1	• Decal, Aux. Transmission	
3	844179	1	• Decal, Hydraulic Controls	
4	822819	1	• Decal, Parking Brake	Used on all, except 84044
5	845185	1	• Decal, EC Parking Brake	Used on 84044 Only
6	894696	1	Valve, Hydraulic Selector	
7	452396	2	Screw, M8-1.25 x 50 mm Flange	
8	832798	1	Plate, Stop	
9	450453	6	Nut, M8-1.25 Hex Flange	
10	822419	1	Washer, 1-5/8" Diameter	
11	304632	1	Nut, 3/8-16 Hex Jam	
12	844582	1	Rod, Extension Handle	
13	306388	1	Nut, 3/8-24 Hex Jam	
14	548171	1	Knob	
15	844051	1	Plate, Float Latch	
16	800930	4	Screw, M8-1.25 x 16 mm Flange	
17	886270	1	Valve, Hydraulic Lift Control	Discard Decal included with Valve
18	843355	1	Mount, Lift Control Valve	
19	316907	4	Screw, 1/4-20 x 2-3/4" Hex Head	
20	306396	4	Lockwasher, 1/4	
21	306375	4	Nut, 1/4-20 Hex	
22	823225	1	Clevis Pin, 3/16 x 1"	
23	308089	1	Flat Washer, #10	
24	306463	1	Cotter Pin, 1/16 x 1/2"	
25	839213	1	Connector, Valve	
26	814079	1	Clevis Pin, 5/16 x 1-1/8"	
27	103867	1	Flat Washer, 5/16	
28	306328	1	Cotter Pin, 3/32 x 3/4"	
29	843758	1	Handle, Lift Control Valve	
30	452404	1	Screw, M10-1.5 x 70 mm Flange	
31	825538	1	Spring, Compression	
32	843759	1	Bushing, Lift Control Valve	
33	450454	1	Nut, M10-1.5 Hex Flange	
34	521144	1	Cover, Handle	
35	826558	2	Adapter, 90° Fitting	ORB to JIC 37° Flare
36	828057	1	Adapter, 90° Fitting	ORB to JIC 37° Flare
37	823118	1	Adapter, Straight Fitting	ORB to JIC 37° Flare
38	828056	1	Adapter, 90° Swivel Fitting	JIC 37° Flare

&gt; Change from previous revision

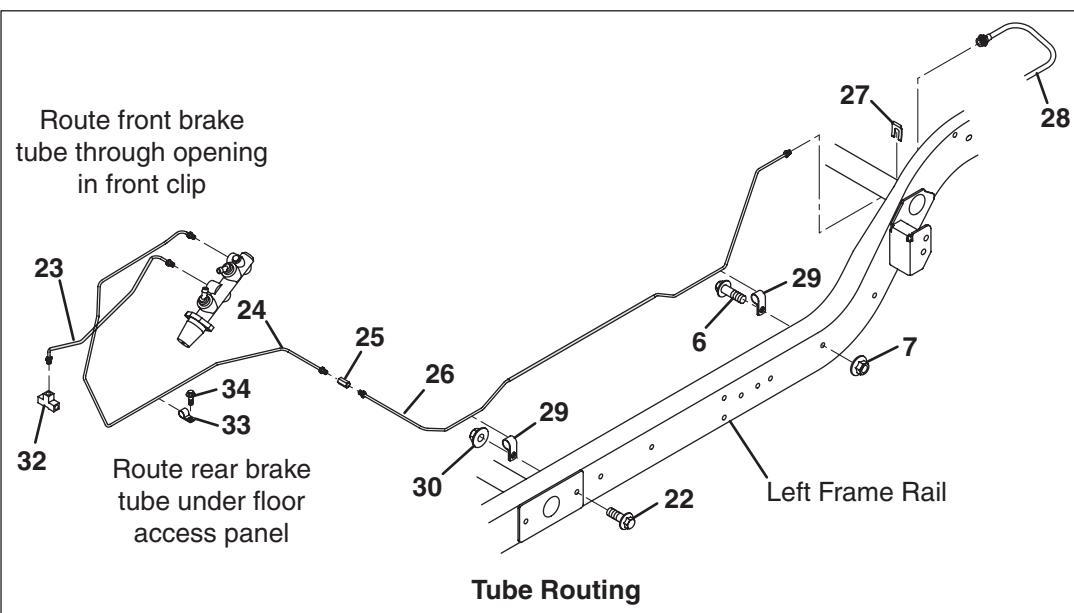
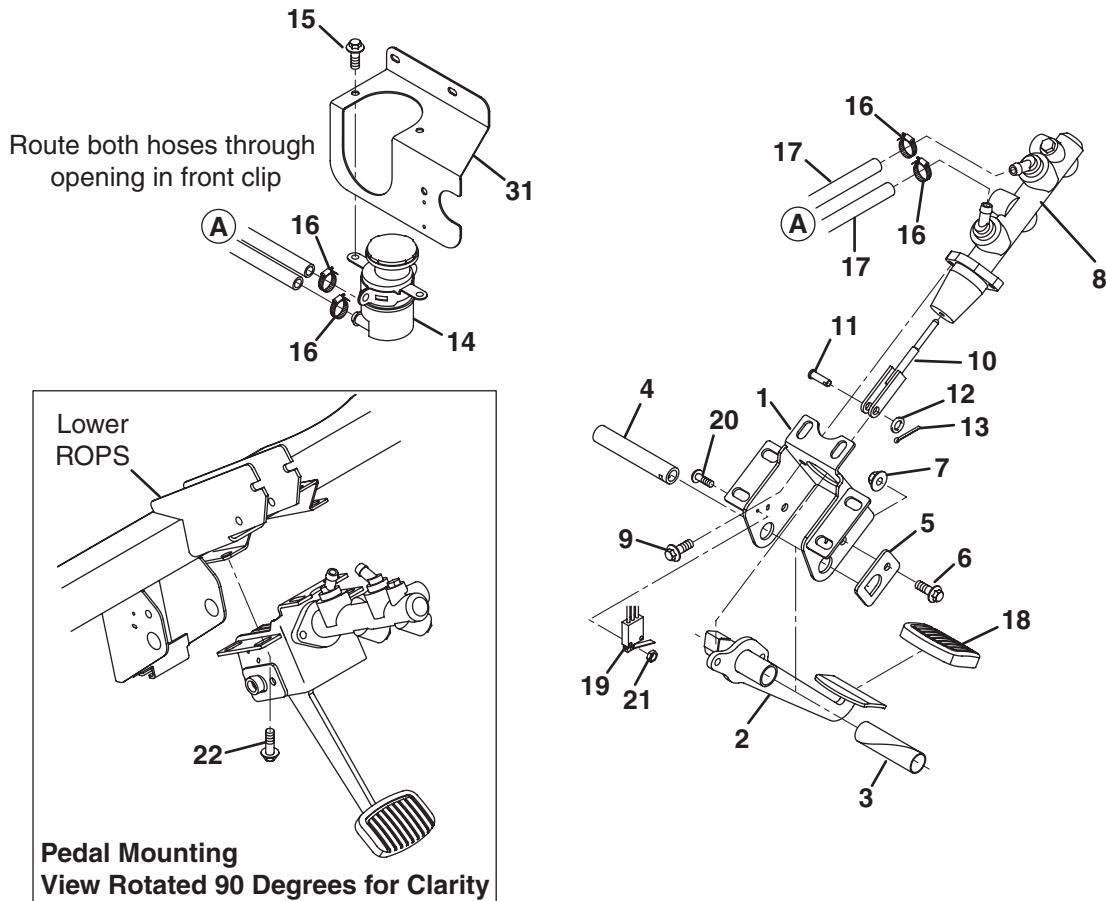


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	894317	1	Lever, Parking Brake	
2	845134	1	Bracket, Parking Brake Lever	
3	452388	5	Screw, M8-1.25 x 20 mm Flange	
4	452391	1	Screw, M8-1.25 x 40 mm Flange	
5	450453	6	Nut, M8-1.25 Flange	
6	845133	1	Cable, Parking Brake	
7	450377	1	Nut, M6-1 Staytite	
8	827182	1	Pulley, 3" Cable	
9	843359	1	Bushing, Pulley	
10	809152	2	Flat Washer, 5/16 x 1-3/16"	
11	843356	1	Equalizer, Parking Brake	
12	800446	1	Locknut, 5/16-24	
13	843158	1	Bracket, Parking Brake Cables	
14	452398	2	Screw, M10-1.5 x 20 mm Flange	
15	450454	2	Nut, M10-1.5 Flange	
16	REF	2	Parking Brake Cables	See 39.1
17	889106	1	Cable, High - Low Speed Control	
18	452378	1	Screw, M6-1 x 12 mm Flange	
19	450452	1	Nut, M6-1 Flange	
20	837043	1	Bracket, High - Low Cable	
21	2702244	2	Nut, #10-32 Hex	Apply Locktite 242
22	806703	1	Clevis Pin, 5/16 x 31/32"	
23	306328	1	Cotter Pin, 9/32 x 3/4"	
24	320107	1	Cable Tie, 7-1/2"	

&gt; Change from previous revision

## 7.1 Brake Pedal

Serial No. All



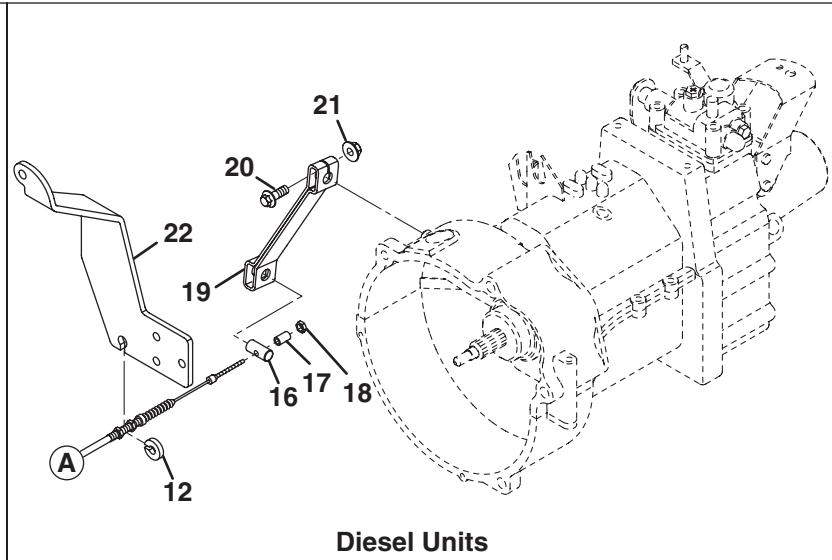
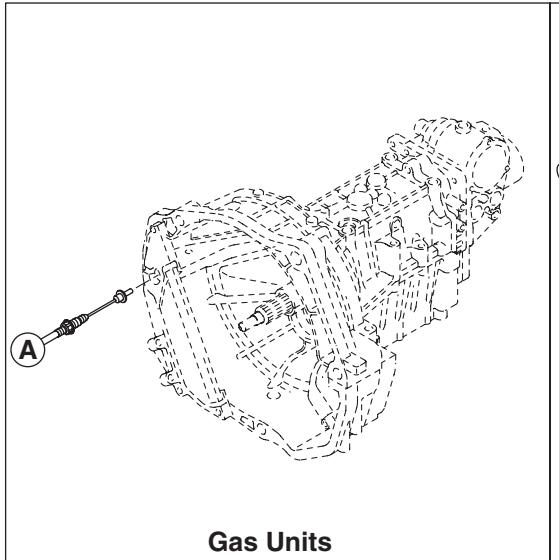
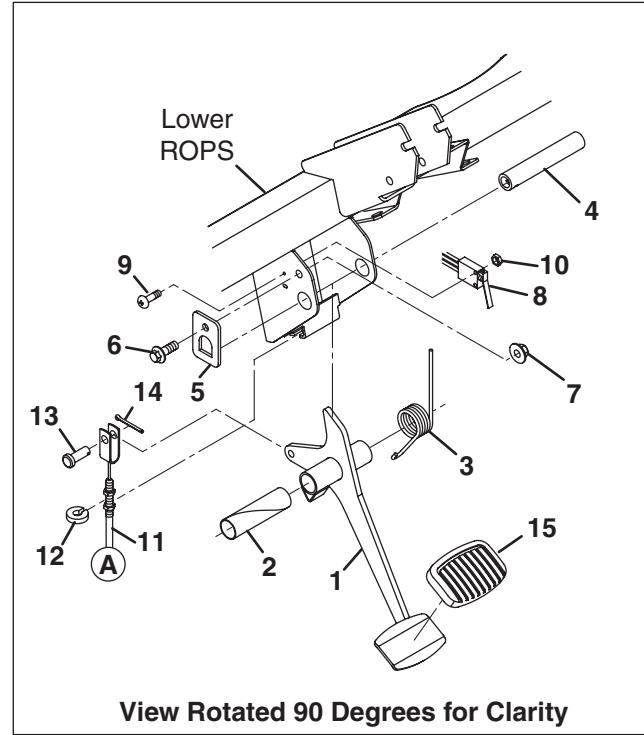
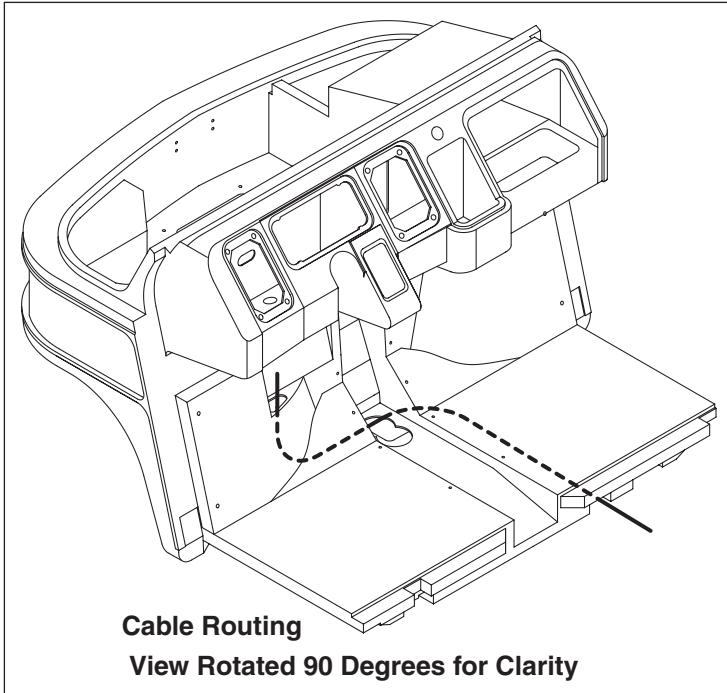
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2701737.7	1	Bracket, Master Cylinder	
2	892921	1	Pedal, Brake	
3	840726	1	Bearing, Brake Pivot	
4	840725	1	Tube, Brake Pivot	
5	842935	1	Tab, Locking	
6	452388	2	Screw, M8-1.25 x 20 mm Flange	
7	450453	2	Nut, M8-1.25 Flange	
8	895113	1	Master Cylinder	
9	800930	2	Screw, M8-1.25 x 16 mm Flange	
10	894167	1	Rod, Brake	
11	806714	1	Clevis Pin, 5/16 x 15/16"	
12	103867	1	Flat Washer, 5/16	
13	306328	1	Cotter Pin, 3/32 x 3/4"	
14	894456	1	Reservoir, Brake Fluid	
	2702215	1	• Reservoir	
	826006	1	• Electrical Connector, 2 Wire	
	825886	2	• Terminal, 1/4 "L" Male	
15	800934	2	Screw, M6-1 x 16 mm Flange	
16	830930	4	Clamp, Hose	
17	7040	AR	Hose, 5/16" Brake	6 Foot Length, cut to 18"
18	810152	1	Pad, Pedal	
19	894308	1	Switch, Brake Micro	
20	450410	2	Screw, M3-0.5 x 20 mm Pan Head	
21	452424	2	Nut, M3-0.5 Hex	
22	452398	7	Screw, M10-1.5 x 20 mm Flange	
23	843021	1	Tube, Front Brake	
24	843022	1	Tube, Rear Brake	
25	842103	1	Union, M10-1	
26	842051	1	Tube, Rear Brake Line	
27	809137	1	Clip, Brake Line	
28	REF	1	Rear Brake Hose	See 39.1
29	810435	2	Clamp, Brake Tube	
30	450454	1	Nut, M10-1.5 Flange	
31	REF	1	Bracket, Reservoir / Horn	See 37.1
32	REF	1	Tee, M10-1.0 Flare Union	See 17.1
33	812445	1	Clamp, Tube	
34	800943	1	Screw, #10-14 x 5/8" Self Tapping	

&gt; Change from previous revision

# TURF TRUCKSTER

## 8.1 Clutch Pedal Linkage

Serial No. 84043 All  
Serial No. 84044 All  
Serial No. 898627 All  
Serial No. 84054 All

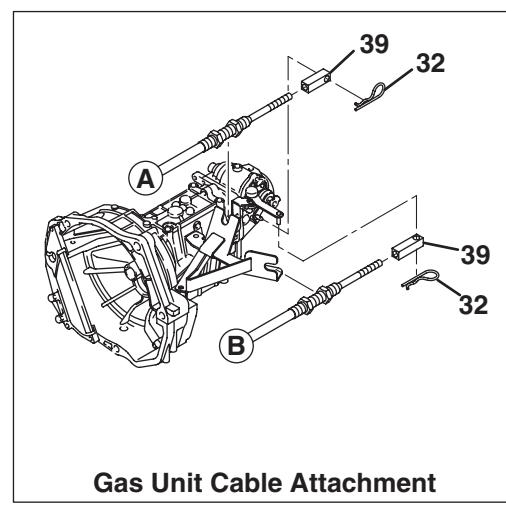
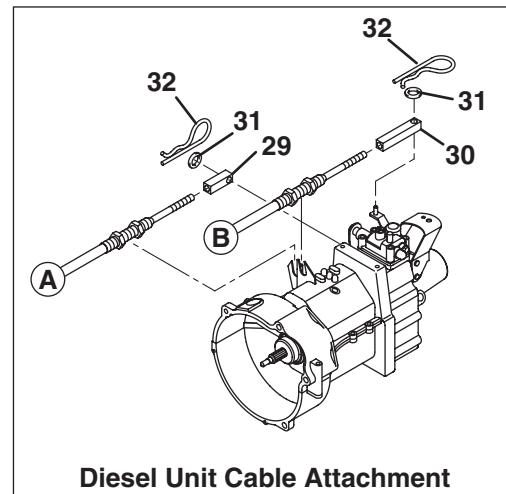
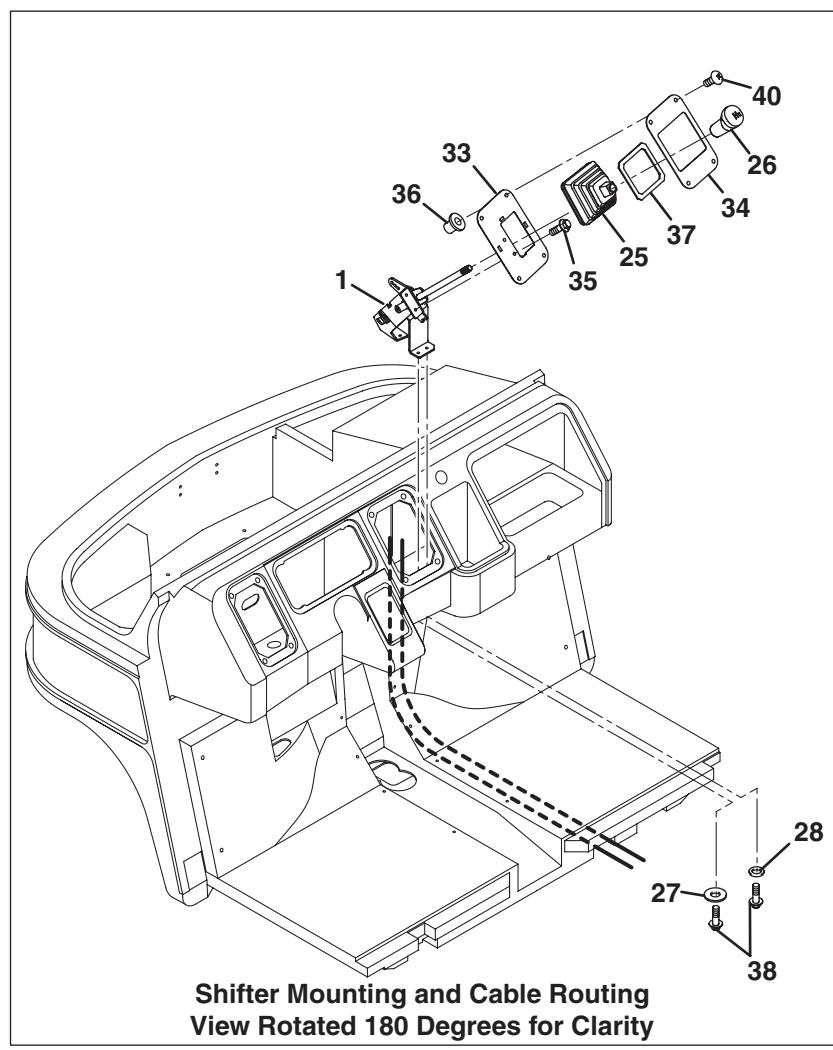
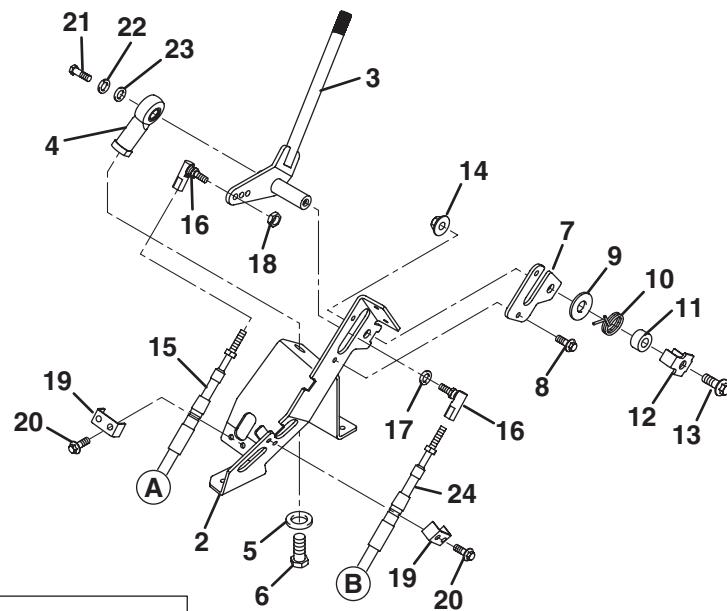


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	892933	1	Pedal, Clutch	
2	840726	1	Bearing, Brake Pivot	
3	844611	1	Spring, Torsion	
4	840725	1	Tube, Pedal Pivot	
5	842935	1	Tab, Locking	
6	452388	1	Screw, M8-1.25 x 20 mm Flange	
7	450453	1	Nut, M8-1.25 Flange	
8	894308	1	Switch, Clutch Micro	
9	450510	2	Screw, M3-0.5 x 20 mm Pan Head	
10	452424	2	Nut, M3-0.5 Flange	
11	4119634	1	Cable, Clutch	Diesel Units
11	895013	1	Cable, Clutch	Gas Units
12	844202	2	Washer, Slotted	
13	806714	1	Clevis Pin, 5/16 x 15/16"	
14	306328	1	Cotter Pin, 3/32 x 3/4"	
15	810152	1	Pad, Pedal	
16	842010	1	Bushing, Clutch Release Arm	Diesel Units Only
17	833273	1	Bushing	Diesel Units Only
18	450377	1	Nut, M6-1 Nylock	Diesel Units Only
19	23266-85002	1	Arm, Clutch Release	Diesel Units Only
20	01550-08353	1	Screw	Diesel Units Only
21	2703002	1	Nut	Diesel Units Only
22	REF	1	Rear Alternator Bracket	Diesel Units Only, See 24.1

&gt; Change from previous revision

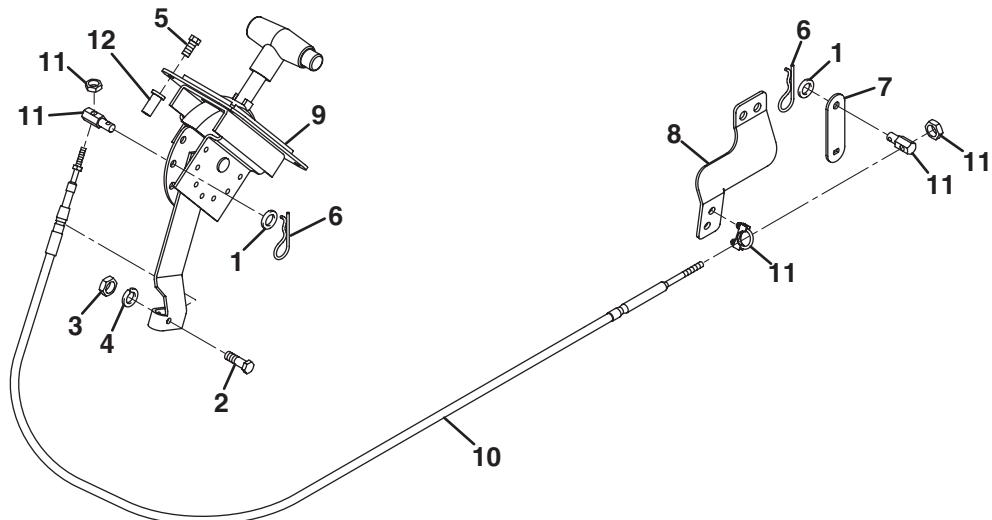
## 9.1 Manual Transmission Shifter Linkage

Serial No. 84043 All  
 Serial No. 84044 All  
 Serial No. 898627 All  
 Serial No. 84054 All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	893966	1	Shifter Assembly	Diesel Units
1	2701274	1	Shifter Assembly	Gas Units
2	2703956.7	1	• Mount, Shifter	
3	2703953	1	• Selector, Gear	
4	842773	1	• Rod End, 1/2-20	
5	308091	1	• Flat Washer, 1/2	
6	311763	1	• Screw, 1/2-20 x 2-1/4" Hex Head	
7	843679	1	• Plate, Wear	
8	452692	2	• Screw, M6-1 x 12 mm Self Tap	
9	604174	1	• Flat Washer, 3/8"	
10	843614	1	• Spring, Torsion	
11	843685	1	• Bushing, Spring	
12	2703951	1	• Tab, Locating	
13	452401	1	• Screw, M10-1.5 x 40 mm Flange	
14	450454	1	• Nut, M10-1.5 Flange	
15	894179	1	• Cable, Shifter	Diesel Units
15	2701273	1	• Cable, Shifter	Gas Units
16	842774	2	• Ball Joint, 1/4-28	
17	816307	1	• Flat Washer, 1/4	
18	306397	1	• Nut, 1/4-28 Hex	
19	843724	2	• Clamp, Cable	
20	452695	4	• Screw, M6-1 x 20 mm Self Tap	
21	300977	1	• Screw, 1/4-28 x 5/8" Hex Head	
22	306396	1	• Lockwasher, 1/4	
23	308090	1	• Flat Washer, 1/4	
24	894179	1	• Cable, Shifter	Diesel Units
24	2701328	1	• Cable, Shifter	Gas Units
25	2702996	1	Boot, Control Lever	
26	2702695	1	Knob, Shifter	
27	548175	3	Flat Washer, 1/4 x 1-1/4"	
28	308090	1	Flat Washer, 1/4	
29	843778	1	Connector, Shift Cable	Diesel Units Only
30	2703707	1	Connector, Shift Cable	Diesel Units Only
31	103867	2	Flat Washer, 5/16	Diesel Units Only
32	821164	2	Hair Pin	
33	2703964.7	1	Panel, Right Side Dash	
34	843792	1	Plate, Shifter Boot	
35	452692	2	Screw, M6-1 x 12 mm Self Tap	
36	2700496	4	Insert, 1/4-20 Threaded	
37	2703931.7	1	Ring, Boot Hold Down	
38	452695	4	Screw, M6-1 x 20 mm Self Tap	
39	2701371	2	Connector, Shift Cable	Gas Units Only
40	800582	4	Screw, 1/4-20 x 3/4" Truss Head	

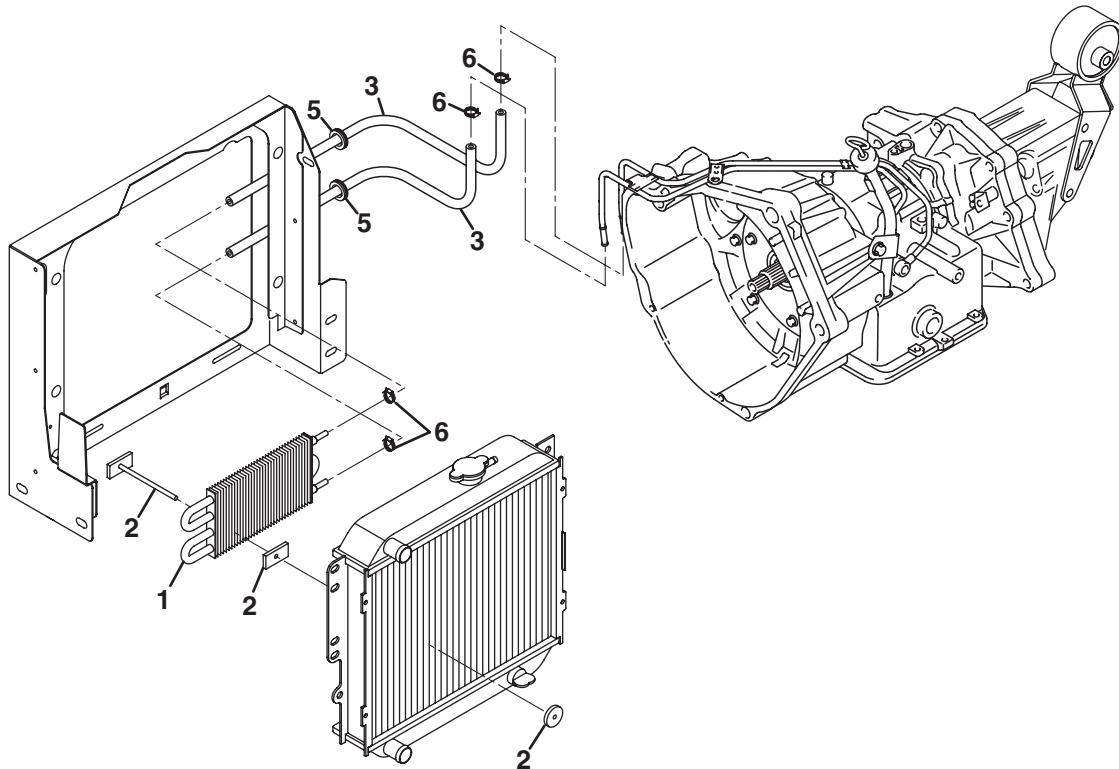
&gt; Change from previous revision



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	103867	2	Flat Washer, 5/16	
2	302030	1	Screw, 1/4-20 x 1-1/4"	
3	306375	1	Nut, 1/4-20 Hex	
4	306396	1	Lockwasher, 1/4	
5	800582	4	Screw, 1/4-20 x 3/4"	
6	821164	2	Hair Pin, 1/4 x 1-1/8"	
7	842740	1	Lever, Shifter	
8	845345.7	1	Bracket, Shifter Cable Mount	
9	894584	1	Shifter with Cable	
10	894508	1	• Cable, Shifter	
11	892164	1	• Kit, Cable Mounting Hardware	
12	2700496	4	Insert, 1/4-20	

&gt; Change from previous revision

## 11.1 Automatic Transmission Oil Cooler

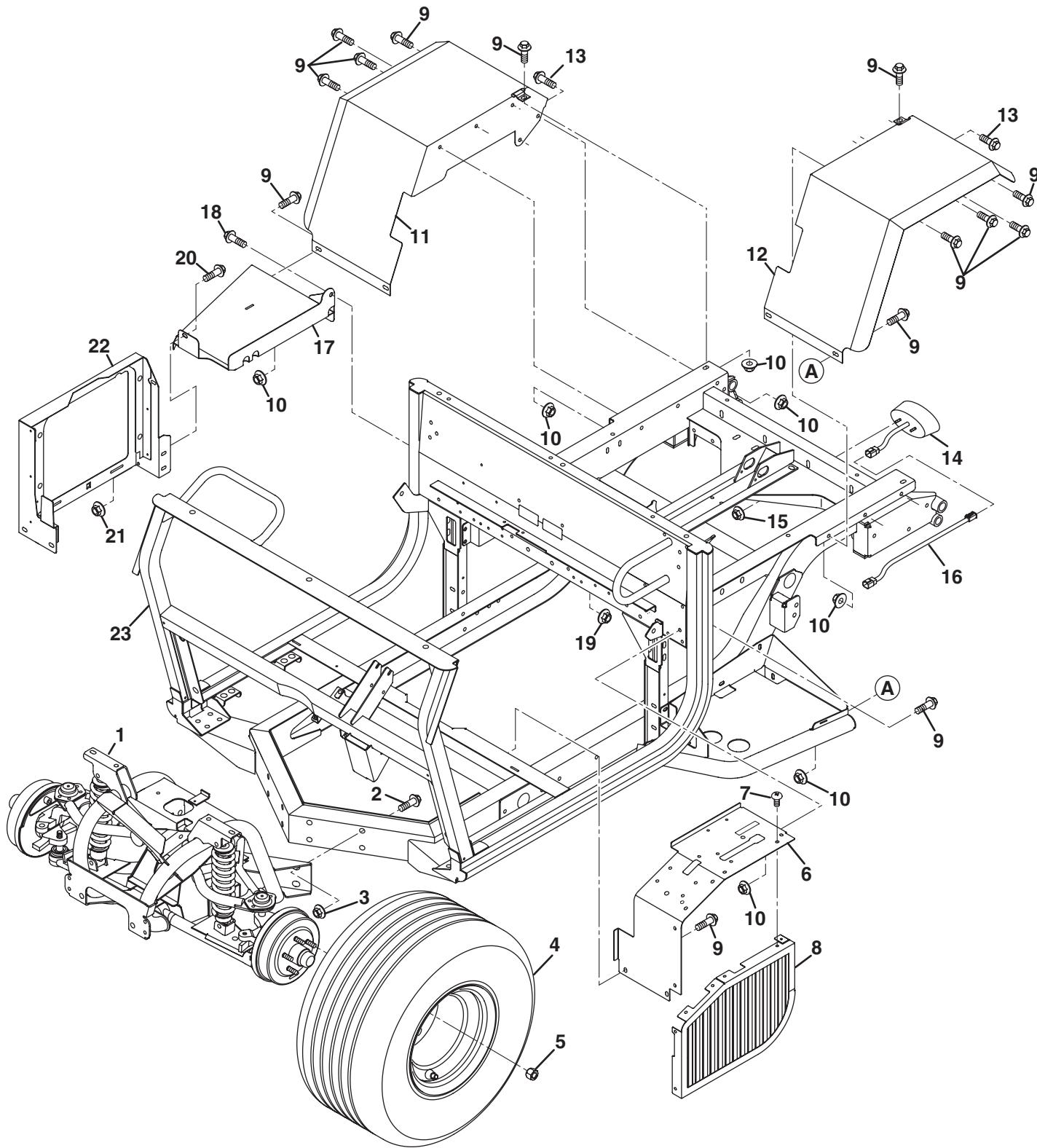


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	838340	1	Oil Cooler	
2	800789	1	Kit, Oil Cooler Mounting	
3	826590	AR	Hose, 5/16 I.D.	
4	821893	AR	Trim, Push On	
5	809231	2	Grommet	
6	825264	4	Hose Clamp	

&gt; Change from previous revision

## 12.1 Frame Attachments

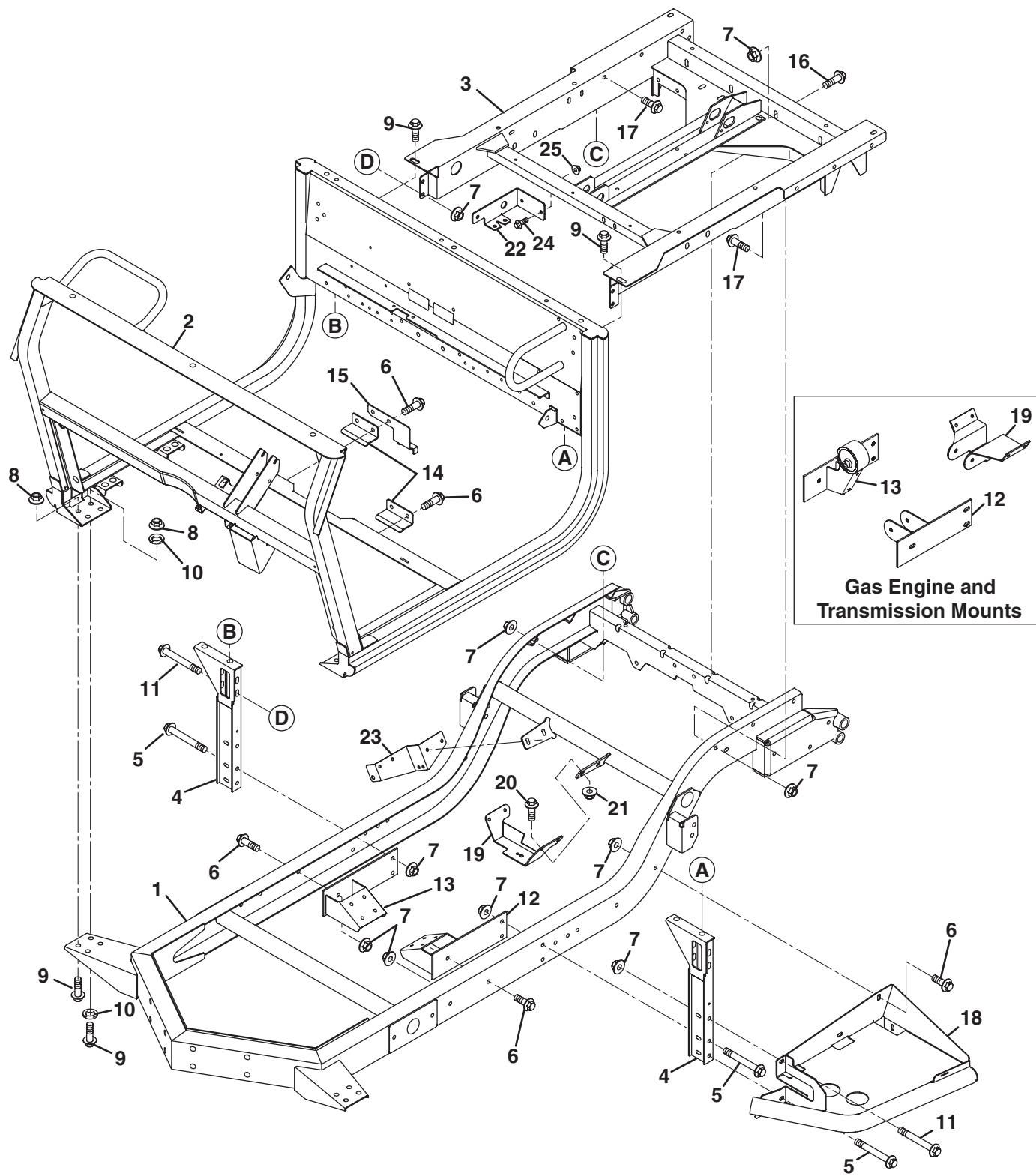
Serial No. All



# TURF TRUCKSTER

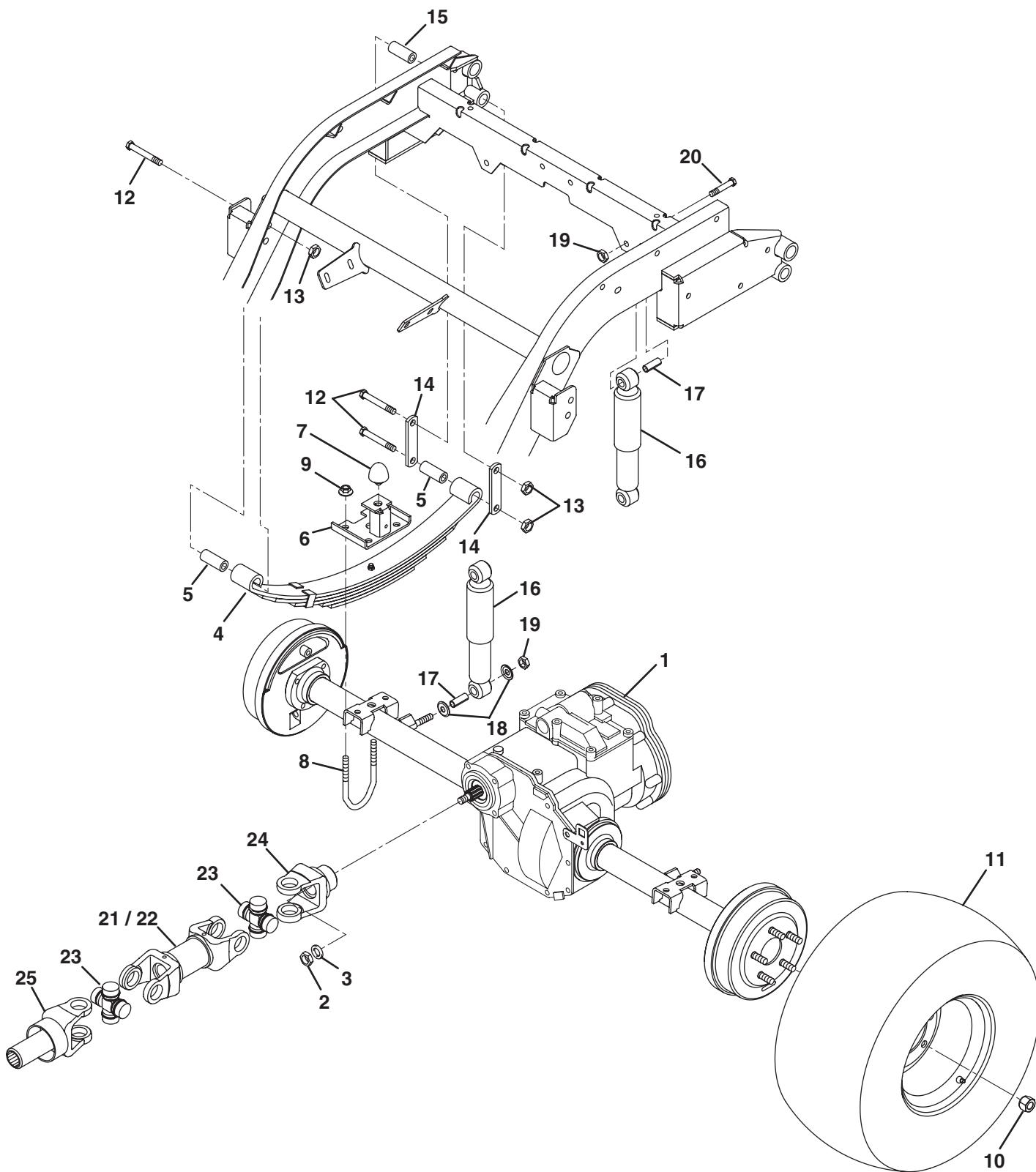
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	REF	1	Front Suspension	See 15.1, 16.1 and 17.1
2	452415	8	Screw, M12-1.75 x 80 mm Flange	
3	450454	8	Nut, M10-1.5 Hex Flange	
4	4139806G03	2	Wheel and Tire, Multi Rib	Standard
4	4139806G03	2	Wheel and Tire, Turf Master	Optional
4	4139806G03	2	Wheel and Tire, USA Trail	Optional
	4139793	1	• Rim, 10.00 x 7" Five Bolt	3.94" Bolt Circle
	N/S	1	• Tire, 20 x 10.00 - 10 Multi Rib	Used on 4139806G03, Obtain Locally
	N/S	1	• Tire, 20 x 10.00 - 10 Turf Master	Used on 4139806G01, Obtain Locally
	N/S	1	• Tire, 20.5 x 8.00 - 10 USA Trail	Used on 4139806G02, Obtain Locally
	886735	1	• Valve Stem	
5	800909	2	Nut, M12-1.5 Wheel Lug	
6	REF	1	Panel, Console	See 5.1
7	800026	7	Screw, 1/4-20 Truss Head	
8	894232	1	Cover, Left Side Engine	
9	452398	18	Screw, M10-1.5 x 20 mm Flange	
10	450454	20	Nut, M10-1.5 Hex Flange	
11	893488	1	Fender, Right Side	
12	893487	1	Fender, Left Side	
13	452399	2	Screw, M10-1.5 x 25 mm Flange	
14	893602	1	Stop and Tail Light	
	822049	1	• Bulb, No. 1157	
	312288	2	• Lens, Screw	
	829099	1	• Lens and Gasket	Includes License Illuminator Lens
15	548910	2	Nut, 1/4-20 Serrated Flange	
16	894313	1	Harness, Taillight Wire	
17	4117153.7	1	Support, Fuel Tank	
18	800177	1	Screw, 5/16-18 x 3/4" Truss	
19	548911	1	Nut, 5/16-18 Hex Flange	
20	800930	1	Screw, M8-1.25 x 16 mm Flange	
21	450453	1	Nut, M8--1.25 Hex Flange	
22	REF	1	Radiator Support	
23	REF	1	Frame, Lower ROPS and Platform	See 13.1

> Change from previous revision



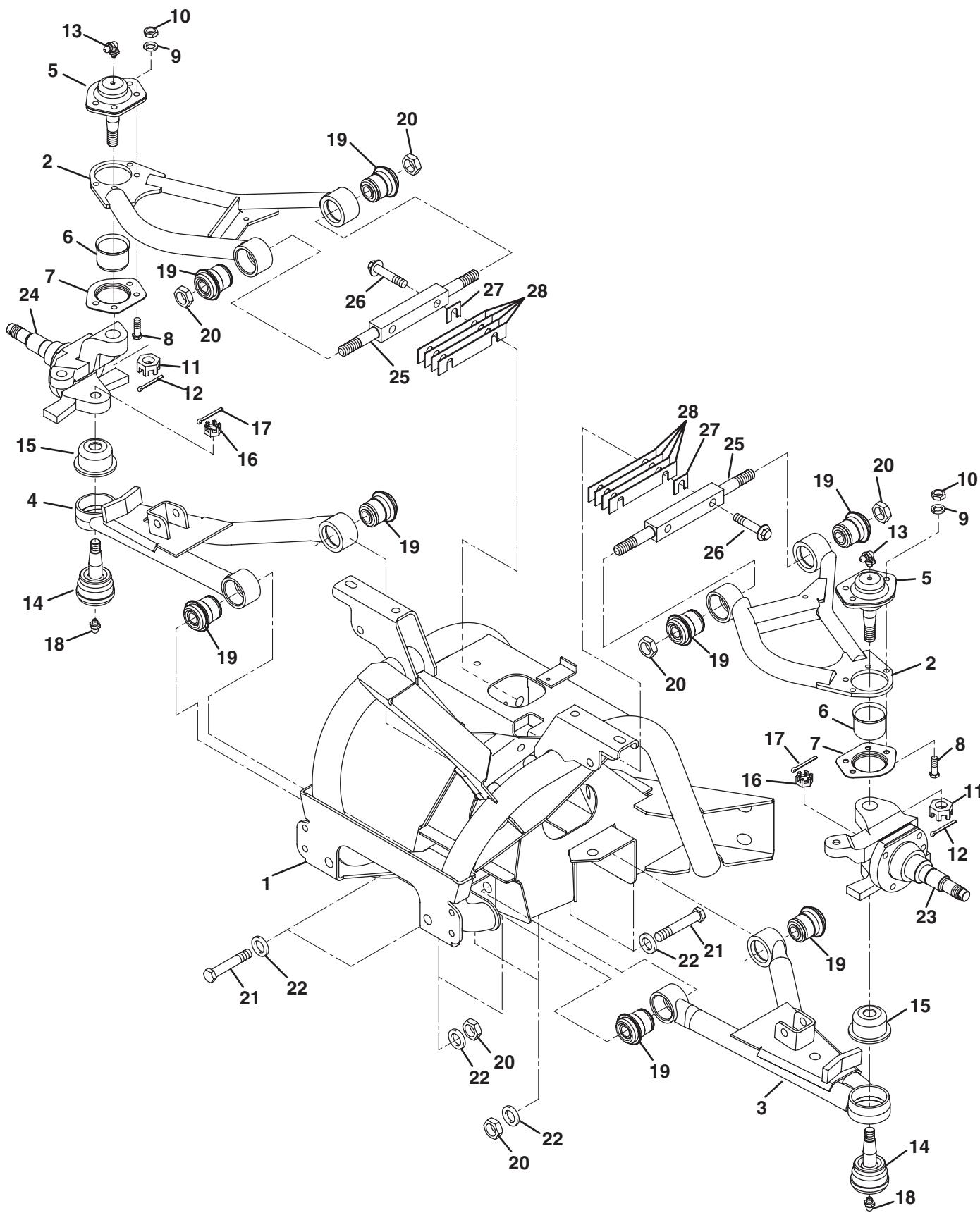
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	893235.7	1	Frame, Main 4 Wheel	Standard Frame, Painted Black
1	893235G	1	Frame, Galvanized Main 4 Wheel	Optional Galvanized Frame
2	893145.7	1	ROPS, Lower	
3	893199.7	1	Platform, Truckster	Standard Platform, Painted Black
3	893199-G02	1	Platform, Galvanized Truckster	Optional Galvanized Platform
4	893525G01	2	Support, Platform	
5	452406	4	Screw, M10-1.5 x 90 mm Flange	Grade 8.8
6	452398	8	Screw, M19-1.5 x 20 mm Flange	Grade 8.8
7	450454	20	Nut, M10-1.5 Hex Flange	
8	450455	8	Nut, M12-1.75 Hex Flange	
9	452410	12	Screw, M12-1.75 x 30 mm Flange	
10	309067	2	Lockwasher, 1/2 Shakeproof	
11	452405	5	Screw, M10-1.5 x 80 mm Flange	
12	893581	1	Mount, Left Side Diesel Engine	Diesel Units
12	894998.7	1	Mount, Left Side Gas Engine	Gas Units
13	893582	1	Mount, Right Side Diesel Engine	Diesel Units
13	2701697.7	1	Mount, Right Side Gas Engine	Gas Units
14	842870G01	2	Angle, Support	
15	844647G01	1	Angle, Hold Down	
16	452403	4	Screw, M10-1.5 x 60 mm Flange	
17	452402	6	Screw, M10-1.5 x 50 mm Flange	
18	2703294.7	1	Guard, Hydraulic Tank	
19	843568	1	Transmission Mount	Diesel Units
19	845206.7	1	Transmission Mount	Gas Units
20	452389	4	Screw, M8-1.25 x 25 mm Flange	
21	450453	4	Nut, M8-1.25 Flange	
22	4139924	1	Bracket, Fuel System	Diesel Units
23	2701693.7	1	Bracket, Fuel System	Gas Units
24	452378	2	Screw, M6-1 x 20 mm Hex Flange	
25	450452	2	Nut, M6-1 Hex Flange	

*> Change from previous revision*



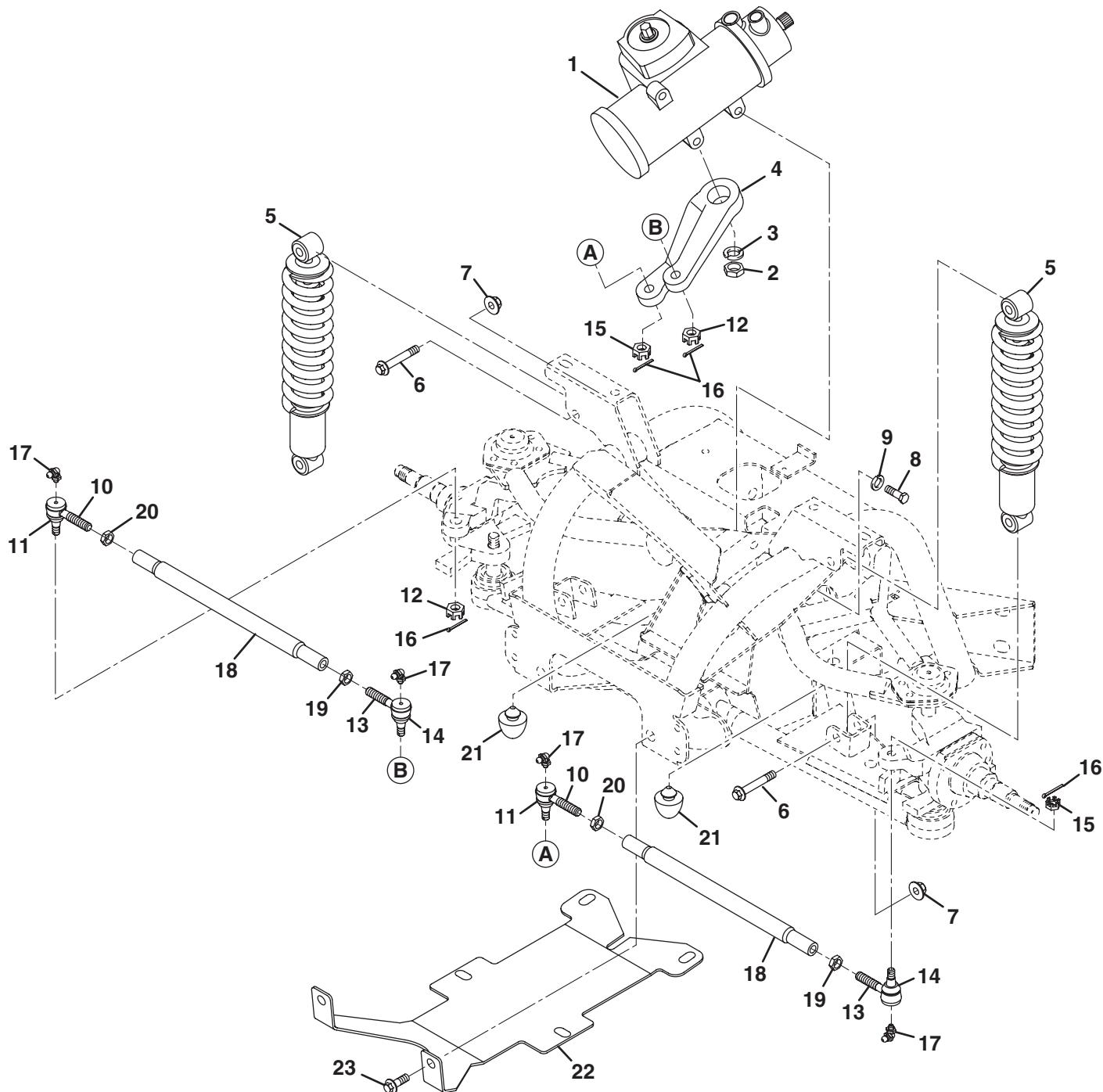
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	893491	1	11.16:1 Rear Differential Assembly	Diesel Units, See 39.1
1	894509	1	14.21:1 Rear Differential Assembly	Gas Units, See 39.1
2	800198	1	Locknut, 1/2-20	
3	809180	1	Flat Washer, 1/2	
4	893862	2	Spring, Leaf	
5	843238	2	• Bushing, Nylatron	
6	893613	2	Upstop	
7	813850	2	Bumper, Travel Limiting	
8	829044	4	U-Bolt, 2 x 5-1/4"	
9	548061	8	Nut, 7/16-14	
10	800909	10	Nut, M12-1.5 Wheel Lug	
11	2701174	2	Wheel and Tire Assembly	
	2218140-01	1	• Tire, 6 Ply	
	841434	1	• Rim, 12 x 10.50	
	886735	1	• Stem, Valve	
12	311398	6	Screw, 1/2-13 x 3-1/2" Hex Head	
13	800602	6	Nut, 1/2-13 Nylon Insert	
14	843876	4	Shackle, Rear Spring	
15	843238	2	Bushing, Nylatron	
16	807332	2	Shock Absorber	
17	823621	4	Bushing	
18	825500	4	Washer, 7/16 Cupped	
19	800294	4	Locknut, 7/16-14 Center	
20	311396	2	Screw, 7/16-14 x 2-1/4" Hex Head	
21	894272.7	1	Driveshaft, Complete	Diesel Engine
21	2701321.7	1	Driveshaft, Complete	Gas Engine, MT
21	895112.7	1	Driveshaft, Complete	Gas Engine, AT
	548482	3	• Plug, Expansion	
22	894433	1	• Shaft, Drive	Diesel Engine
22	895126	1	• Shaft, Drive	Gas Engines
23	826284	2	• Cross and Bearing Kit	Includes Grease Fitting
24	826285	1	• Yoke, Differential	
25	894432	1	• Yoke, Transmission	Diesel Engine
25	894192	1	• Yoke, Transmission	Gas Engine, MT
25	895125	1	• Yoke, Transmission	Gas Engine, AT

&gt; Change from previous revision

**15.1 Front Control Arms**

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	36106G01	1	Frame, 4 Wheel Steering	
2	893266	2	Upper Control Arm	
3	893233	1	Left Side Lower Control Arm	
4	893234	1	Right Side Lower Control Arm	
5	844148	2	Upper Ball Joint	
6	N/S	1	• Boot	
7	N/S	1	• Boot Retainer	
8	N/S	4	• Screw, 5/16-24 x 1" Hex Head	Black Oxide Finish, Grade 8
9	N/S	4	• Lockwasher, 5/16	Black Oxide Finish
10	548079	4	• Nut, 5/16-24 Hex	Black Oxide Finish
11	306839	1	• Nut, 5/8-18 Slotted Hex	
12	460030	1	• Cotter Pin, 1/8 x 1-1/4"	
13	471221	1	• Grease Fitting, 1/4-28 90°	
14	841429	2	Lower Ball Joint	
15	N/S	1	• Boot	
16	800861	1	• Nut, 9/16-18 Slotted Hex	
17	460030	1	• Cotter Pin, 1/8 x 1-1/4"	
18	548224	1	• Grease Fitting, 1/4-28 Straight	Special Drive Thread
19	841167	8	Bushing, Silentbloc	
20	450382	8	Nut, M16-2 Locking Insert	
21	450077	4	Bolt, M16-2 x 90 mm Hex Head	Grade 8.8
22	450393	8	Washer, M16	
23	894573	1	Knuckle, Left Side Steering	
24	894574	1	Knuckle, Right Side Steering	
25	841630	2	Trunnion, Control Arm	
26	800945	2	Bolt, M12-1.75 x 60 mm Hex Head	Grade 10.9
27	841738	AR	Shim, .024" Thick	Add or remove shims as required to adjust <b>CASTER</b> angle.
28	841737	AR	Shim, .060" Thick	Add or remove shims as required to adjust <b>CAMBER</b> angle.

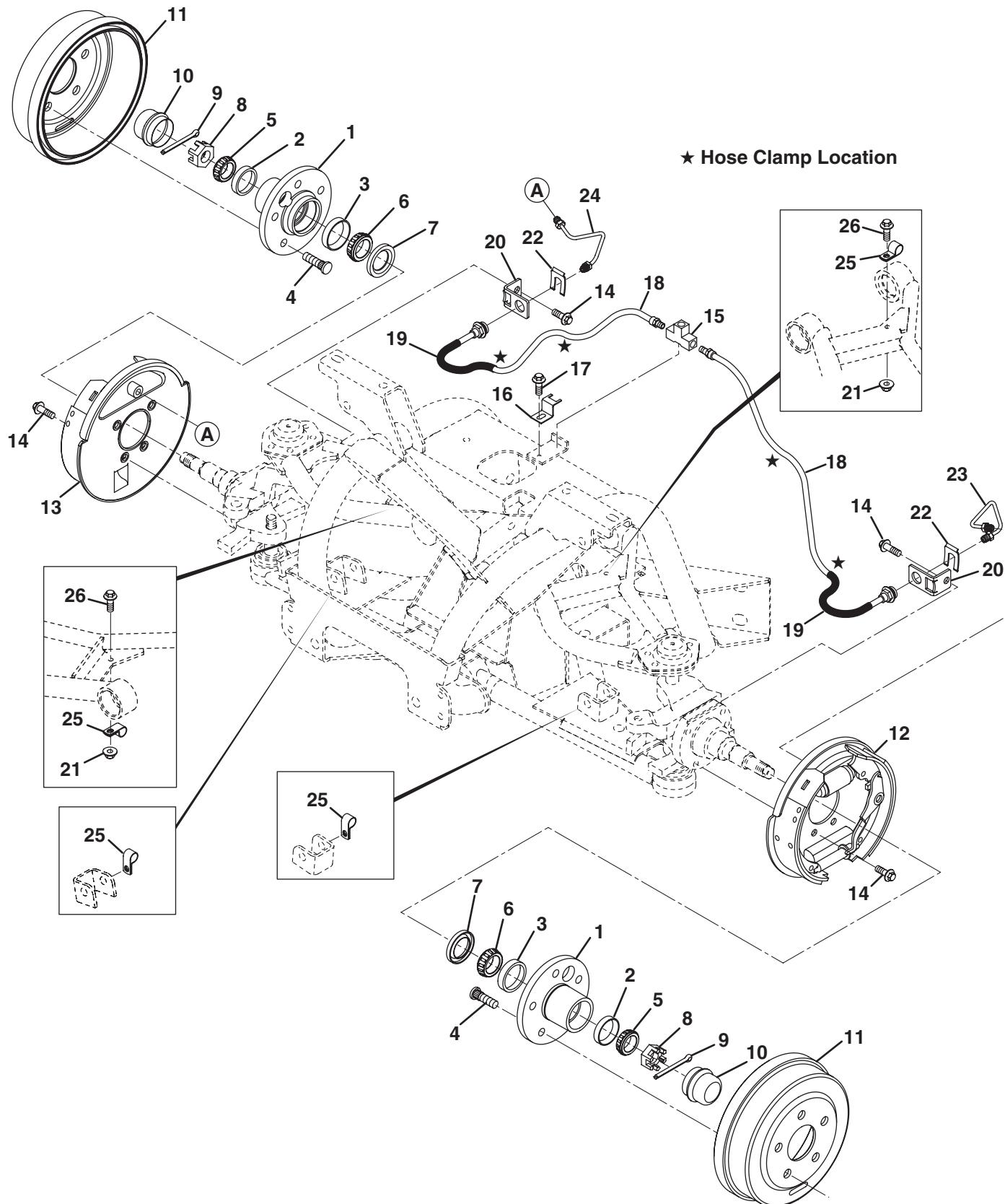
&gt; Change from previous revision



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	841255	1	Steering Gear	
2	305134	1	• Nut, 7/8-14 Hex Jam	
3	308008	1	• Lockwasher, 7/8	
4	841336	1	Arm, Pitman	
5	894635	2	Strut Assembly	
6	452413	4	Screw, M12-1.75 x 60 mm Hex Head	
7	450455	4	Nut, M12-1.75 Hex Flange	Grade 10.9
8	311392	3	Screw, 7/16-14 x 2" Hex Head	
9	303269	3	Lockwasher, 7/16	
10	889681	2	End, Left Hand Thread Tie Rod	
11	816586	1	• Retainer, Grease	
12	306825	1	• Nut, 7/16-20 Castle	
13	889682	2	End, Right Hand Thread Tie Rod	
14	816586	1	• Retainer, Grease	
15	306825	1	• Nut, 7/16-20 Castle	
16	304636	4	Cotter Pin, 1/8 x 1-1/8"	
17	831405	4	Grease Fitting	
18	841404	2	Tie Rod	
19	800485	2	Nut, 9/16-18 Left Hand Thread Jam	
20	302944	2	Nut, 9/16-18 Right Hand Thread Jam	
21	813850	2	Bumper, Travel Limiting	
22	842033	1	Plate, Skid	
23	452408	6	Screw, M10-1.75 x 20 mm	Grade 10.9

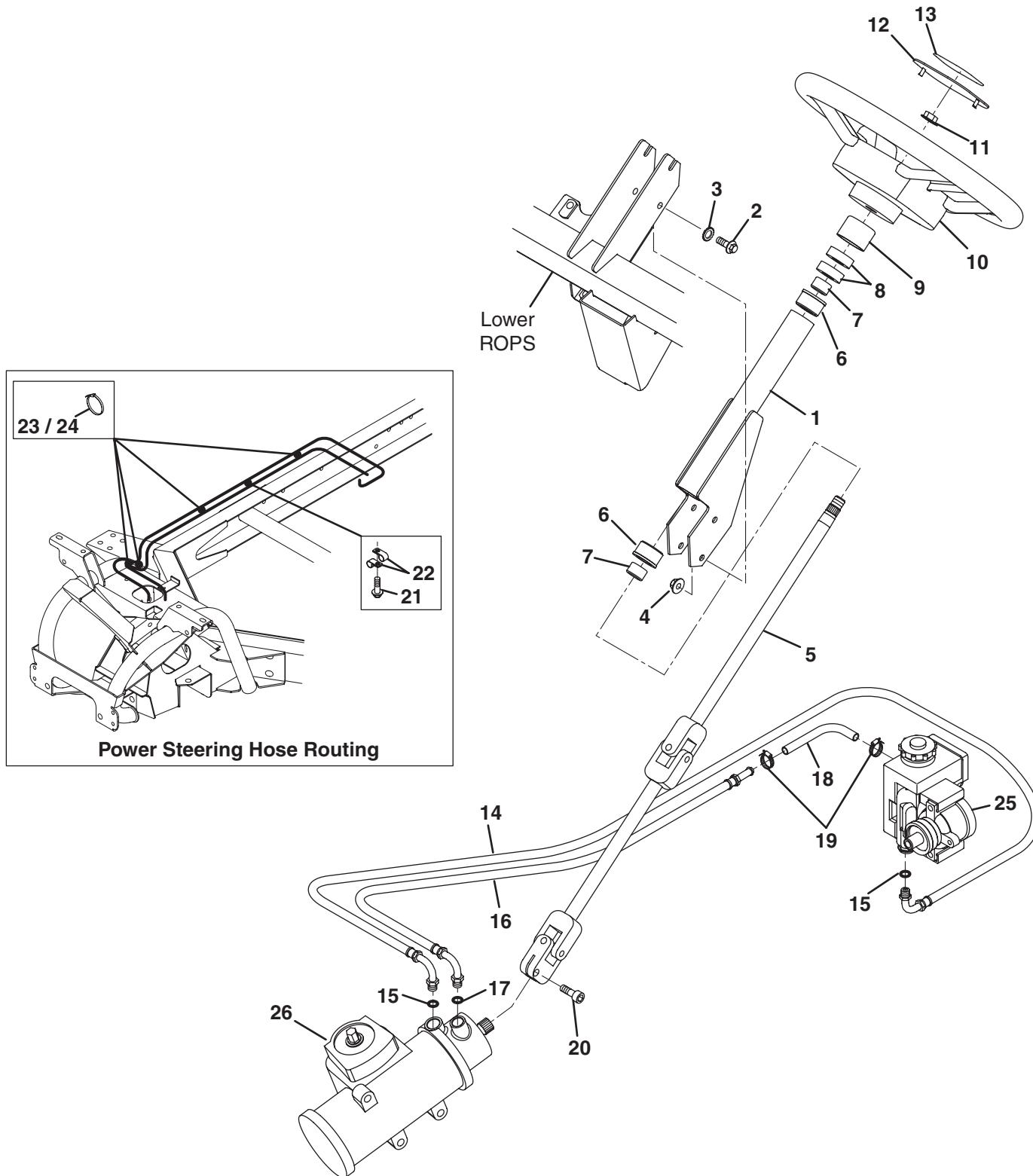
&gt; Change from previous revision

## 17.1 Front Brakes



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2702257.7	2	Front Hub	
2	808088	1	• Outer Bearing Cup	
3	814474	1	• Inner Bearing Cup	
4	800908	4	• Bolt, M12-1.5 x 42 mm Wheel	
5	385174	2	Outer Bearing Cone	
6	815403	2	Inner Bearing Cone	
7	817928	2	Seal, Grease	
8	2702247	2	Nut, 3/4-16 Castle	
9	304636	2	Cotter Pin, 1/8 x 1-1/8"	
10	817250	2	Cap, Grease	
11	841430	2	Brake Drum	
12	893585	1	Front Left Side Brake Assembly	
	894930	1	• Kit, Brake Cylinder	Replacement of Cylinder
	894931	1	• Kit, Brake Cylinder Repair	Repair of Cylinder
	894932	1	• Kit, Brake Shoe	Includes Left and Right sides
	894933	1	• Kit, Left Side Spring	
	894935	1	• Kit, Left Side Adjuster Repair	
13	893586	1	Front Right Side Brake Assembly	
	894930	1	• Kit, Brake Cylinder	Replacement of Cylinder
	894931	1	• Kit, Brake Cylinder Repair	Repair of Cylinder
	894932	1	• Kit, Brake Shoe	Includes Left and Right sides
	894934	1	• Kit, Right Side Spring	
	894936	1	• Kit, Right Side Adjuster Repair	
14	452398	10	Screw, M10-1.5 x 20 mm Hex Flange	Grade 8.8
15	841842	1	Tee, M10-1.0 Flare Union	
16	843418	1	Clamp, Tee	
17	452692	1	Screw, M6-1.0 x 12 mm Hex Flange	
18	841841	2	Hose, Brake	
19	2703081	2	Protector, Brake Hose	
20	842104	2	Bracket, Brake Tube	
21	840452	2	Nut, M6-1.0 Hex Flange	
22	809137	2	Clip, Brake Hose Retaining	
23	2702217	1	Tube, Left Front Brake	
24	841839	1	Tube, Right Front Brake	
25	810437	4	Clamp, Hose	
26	452378	2	Screw, M6-1.0 x 20mm Hex Flange	

&gt; Change from previous revision

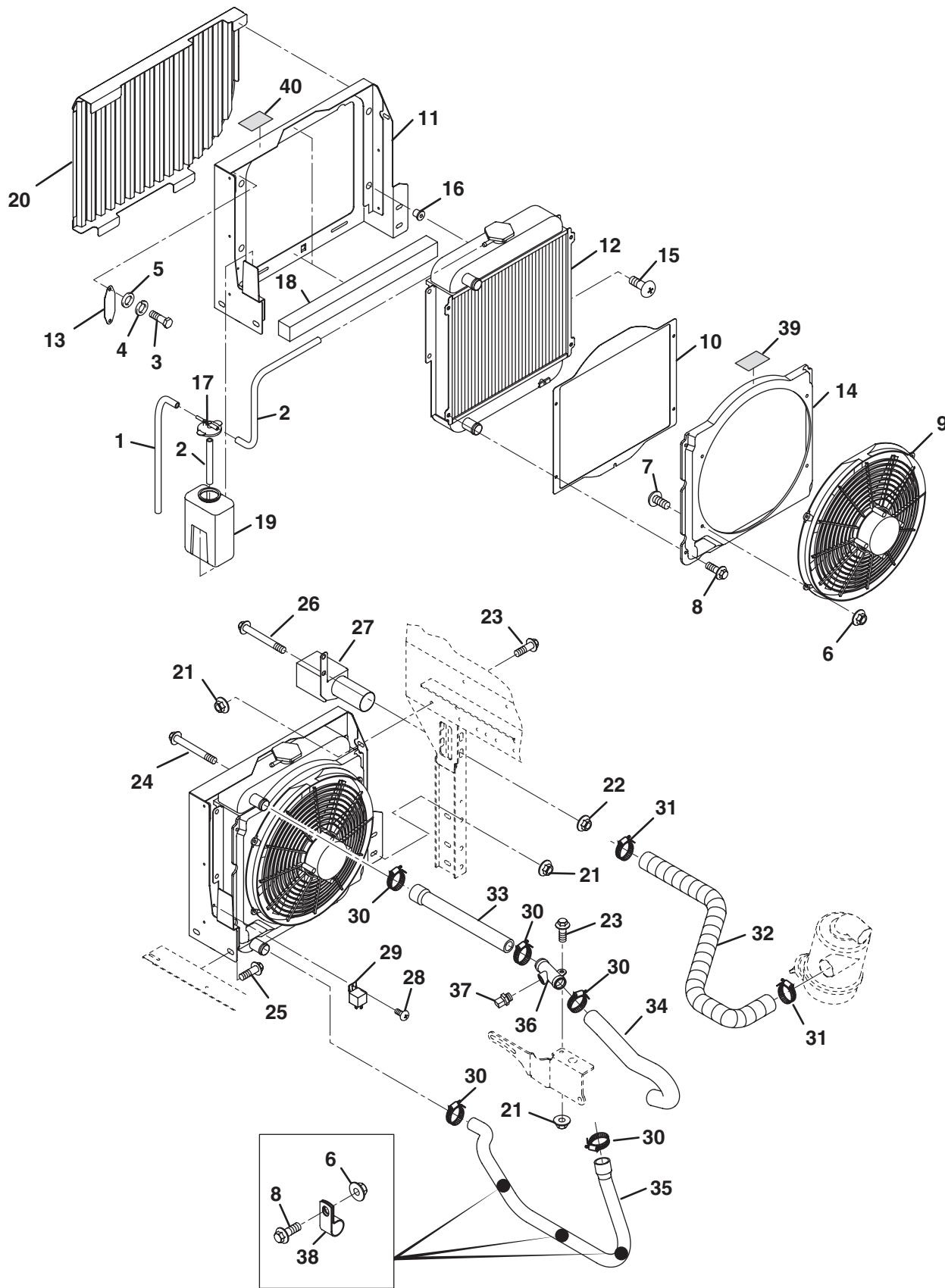


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	893571	1	Tube, Steering Mount	
2	800930	4	Screw, M8-1.25 x 16 mm Flange	
3	306799	4	Lockwasher, 5/16 External Tooth	
4	450453	4	Nut, M8-1.25 Flange	
5	893344	1	Shaft, Steering	
	887259	2	Bearing Assembly	
6	828590	1	• Housing, Bearing	
7	808060	1	• Bearing, Needle	
8	819923	2	Collar, Foam	
9	2700453	1	Cover, Steering Tube	
10	892228	1	Steering Wheel	
11	450457	1	Nut, M16-2 Flange	
12	892486	1	Cover, Steering Wheel	
13	839862	1	• Decal, Steering Wheel	
14	843767	1	Hose, Power Steering Pressure	
15	111838	2	• O-Ring	
16	843768	1	Hose, Power Steering Return	
17	111838	1	• O-Ring	
18	840222	1	Hose, Formed	
19	830930	2	Clamp, Hose	
20	450739	1	Screw, M10-1.5 x 30 mm Socket	
21	800943	1	Screw, #10-14 x 5/8" Self Tapping	
22	809092	2	Clamp, Tube	
23	320107	3	Cable Tie, 7-1/2"	
24	823549	4	Cable Tie, 15-1/2"	Secure hoses together Secure Hoses to Frame
25	839328	1	Power Steering Pump with Reservoir	See 24.1 or 25.1 for mounting. Service parts for pump are available at most automotive parts centers. Refer to 1991-1992 Buick Regal with a 3.8 liter V6 Engine. (Saginaw Pump # 26025515)
26	2700573 REF	1	• Cap, Steering Reservoir Gear, Steering	See 16.1

&gt; Change from previous revision

## 19.1 Diesel Radiator

Serial No. 84043 All  
Serial No. 84044 All

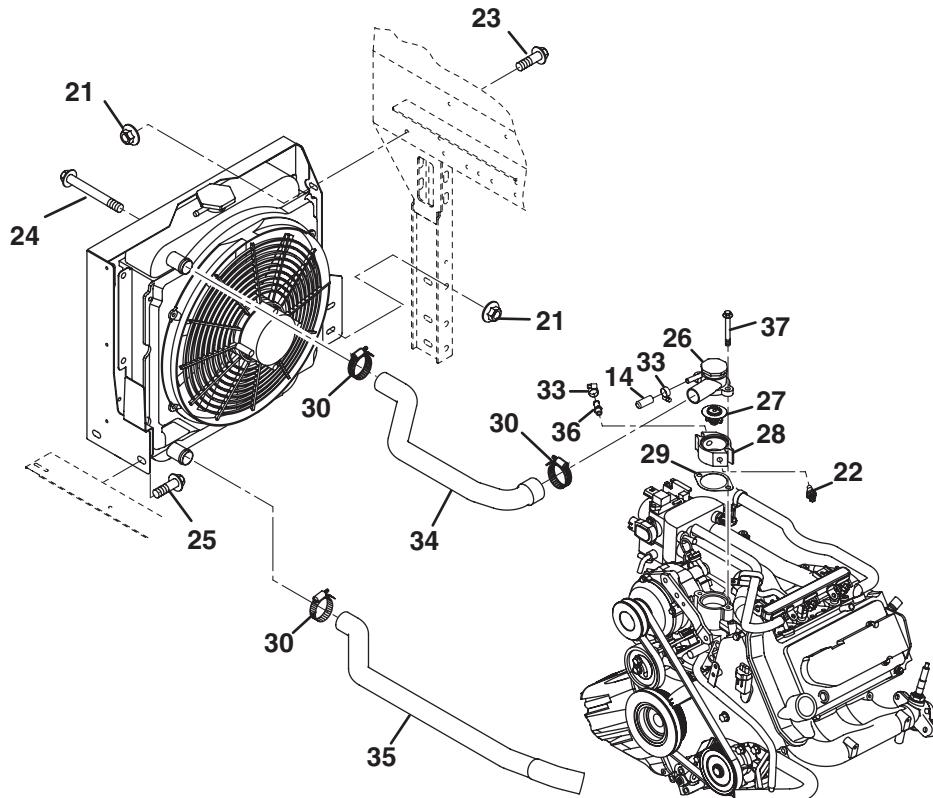
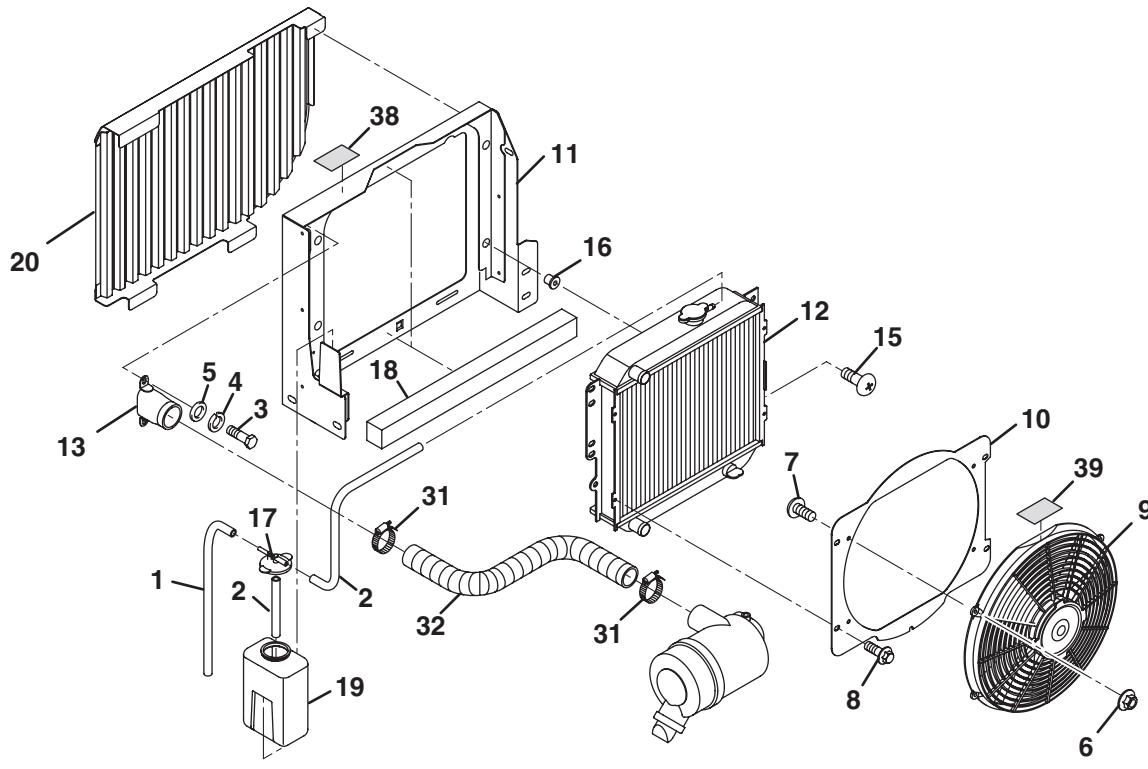


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	843862	AR	Tube, 1/4" I.D. Clear Vinyl	10 Foot Length, Cut to 8"
2	835805	AR	Hose, Radiator Overflow	
3	300646	2	Screw, 1/4-20 x 3/4" Hex Head	
4	306396	2	Lockwasher, 1/4	
5	308090	2	Flat Washer, 1/4	
6	450452	7	Nut, M6-1 Hex Flange	
7	450541	4	Screw, M6-1 x 16 mm Hex Flange	
8	452378	7	Screw, M6-1 x 20 mm Hex Flange	
9	600991	1	Fan, 13" Hi-Perf Puller	
10	600992	1	Panel, Shroud	
11	601591	1	Frame, Radiator	
12	601592	1	Radiator	
13	601595	1	Plate, Blockoff	
14	601596	1	Shroud, 13" Fan	
15	800177	4	Screw, 5/16-18 x 3/4"	
16	831846	4	Nut, Isolation	
17	833440	1	Cap, Overflow Bottle	
18	833512	2	Seal, Radiator Foam	
19	889050	1	Overflow Bottle	
20	893554	1	Screen, Right Side	
21	450453	3	Nut, M8-1.25 Hex Flange	
22	450454	2	Nut, M10-1.5 Hex Flange	
23	452388	2	Screw, M8-1.25 x 20 mm Hex Flange	
24	452395	1	Screw, M8-1.25 x 80 mm Hex Flange	
25	452398	2	Screw, M10-1.5 x 20 mm Hex Flange	
26	452406	2	Screw, M10-1.5 x 90 mm Hex Flange	
27	601585	1	Box, Air	
28	800146	1	Screw, #10 x 3/4 Thread Cutting	
29	2700867	1	Relay, 12V 70A	
30	820889	6	Clamp, Hose	
31	11391G7	2	Clamp, Hose	
32	36092G01	1	Hose, 2" x 16" High Temp Air	
33	4139196	1	Hose, Upper Radiator	
34	2703281	1	Hose, Upper	
35	844391	1	Hose, Lower Radiator	
36	894348	1	Tube, Fan Switch	
37	17680-50F70	1	Switch, Fan	
38	825884	3	Clamp, Hose	
39	840754	1	Decal, Radiator Pressure Warning	
40	009034880	1	Decal, Fan Warning	
41	601586	1	Harness, Fan Wiring	Not Shown, See 50.1
42	601572	1	Harness, Perkins Engine Wiring	Not Shown, See 50.1

&gt; Change from previous revision

## 20.1 Gas Radiator

Serial No. 898627 All  
 Serial No. 898628 All  
 Serial No. 84054 All

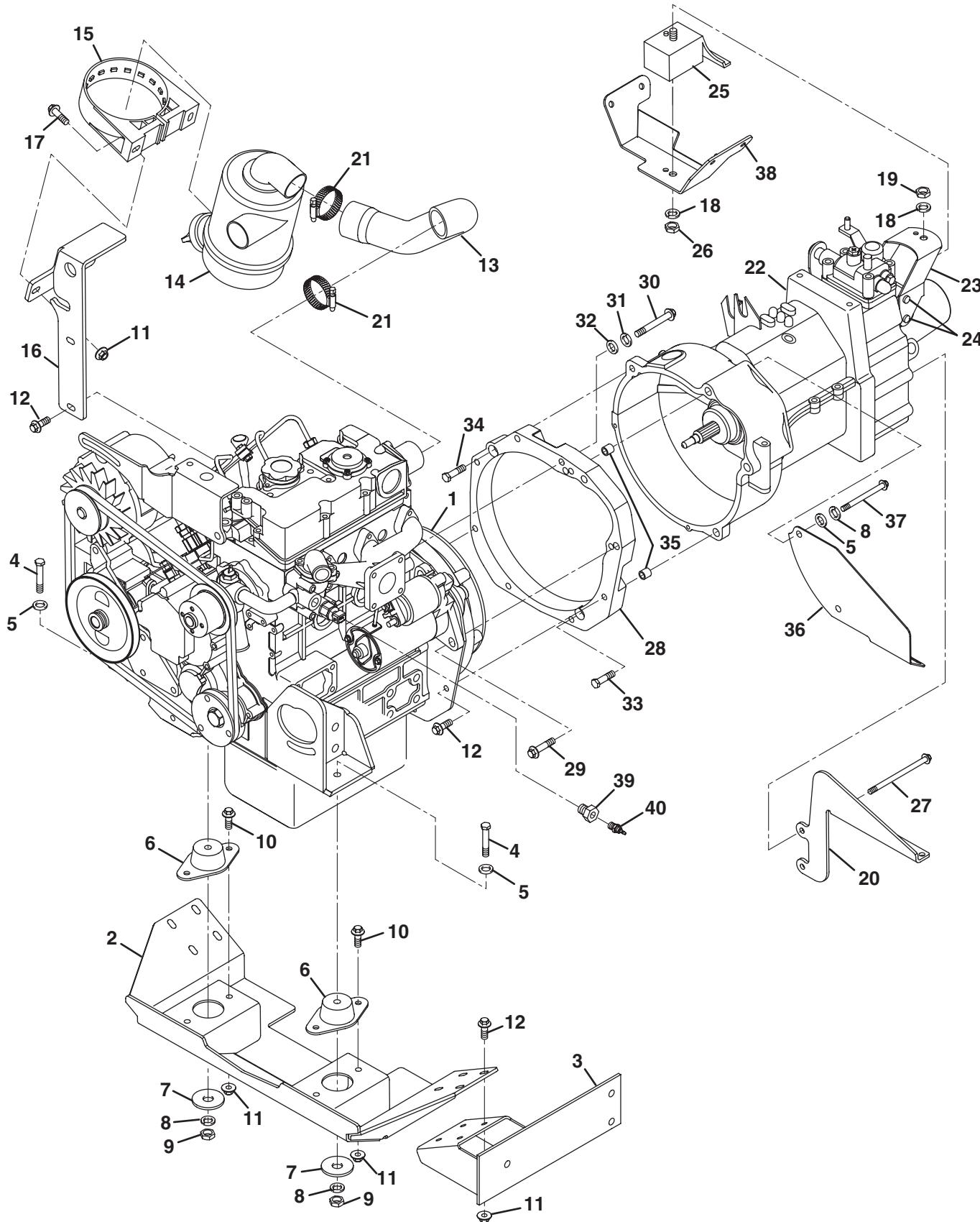


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	843296	AR	Tube, 1/4" I.D. Clear Vinyl	10 Foot Length, Cut to 8"
2	835805	AR	Hose, Radiator Overflow	
3	300646	2	Screw, 1/4-20 x 3/4" Hex Head	
4	306396	2	Lockwasher, 1/4	
5	308090	2	Flat Washer, 1/4	
6	450452	7	Nut, M6-1 Hex Flange	
7	450541	4	Screw, M6-1 x 16 mm Hex Flange	
8	452378	7	Screw, M6-1 x 20 mm Hex Flange	
9	4115033	1	Fan, 13" Radiator	
10	4115029.7	1	Panel, Shroud	
11	893388	1	Frame, Radiator	
12	894590	1	Radiator	
	889049	1	• Cap, Radiator	
	833433	1	• Plug, Drain	
	833442	1	• O-Ring	
13	888549	1	Connector, Hose	
14	845224	1	Cap, 1/4 x 1"	
15	800177	4	Screw, 5/16-18 x 3/4"	
16	831846	4	Nut, Isolation	
17	833440	1	Cap, Overflow Bottle	
18	833512	2	Seal, Radiator Foam	
19	889050	1	Overflow Bottle	
20	893554	1	Screen, Right Side	
21	450453	3	Nut, M8-1.25 Hex Flange	
22	843857	1	Sender, Temperature	
23	452388	2	Screw, M8-1.25 x 20 mm Hex Flange	
24	452395	1	Screw, M8-1.25 x 80 mm Hex Flange	
25	452398	2	Screw, M10-1.5 x 20 mm Hex Flange	
26	4120076	1	Cap, Water Thermostat	
27	4120079	1	Thermostat	
28	4116997	1	Housing, Temperature Sender	
29	2701513	1	Gasket, Thermostat	
30	820889	4	Clamp, Hose	
31	825358	2	Clamp, Hose	
32	36092-G01	1	Hose, 2" x 16" High Temp Air	
33	825624	2	Clamp, 1/4 to 5/8" Worm Drive	
34	2701639	1	Hose, Upper	
35	4115400	1	Hose, Lower Radiator	
36	841230	1	Connector, 1/8 NPT 3/8" Hose	
37	28825-G01	2	Screw, M8-1.25 x 50 mm Flange	
38	009034880	1	Decal, Fan Warning	
39	840754	1	Decal, Radiator Pressure Warning	

&gt; Change from previous revision

## 21.1 Diesel Engine and Transmission Mounting

Serial No. 84043 All  
Serial No. 84044 All

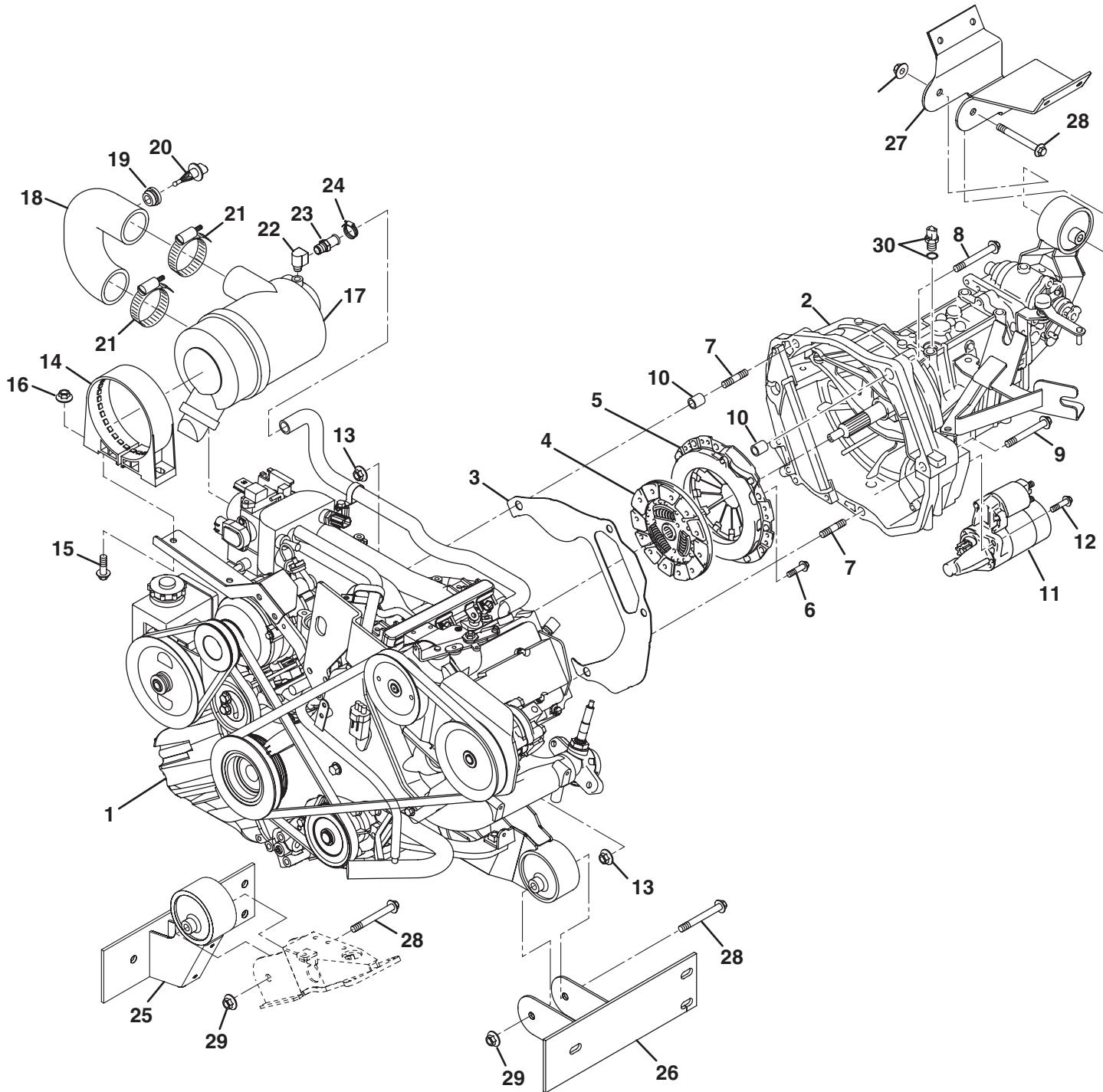


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	REF	1	Engine and Clutch	
2	894580	1	Frame, Engine Mount	See 24.1
3	REF	1	Mount, Engine	See 12.1, Left shown, right similar
4	306836	2	Screw, 3/8-16 x 2-1/4" Hex Head	
5	306981	4	Flat Washer, 3/8	
6	841885	2	Mount, Engine Isolation	
7	809174	2	Washer, Isolator	
8	120177	4	Lockwasher, 3/8	
9	306562	2	Nut, 3/8-16 Hex	
10	452388	4	Screw, M8-1.25 x 20 mm Flange	
11	450453	14	Nut, M8-1.25 Flange	
12	452389	13	Screw, M8-1.25 x 25 mm Flange	
13	600985	1	Hose, Intake	
14	893182	1	Air Filter	
	840352	1	• Element, Air Filter	
15	842915	1	Bracket, Air Filter	
16	601587	1	Bracket, Air Filter Mount	
17	452390	2	Screw, M8-1.25 x 30 mm Flange	
18	450412	2	Lockwasher, M10	
19	800571	1	Nut, M10-1.25 Hex	
20	2703835.8	1	Bracket, Muffler	
21	11391G7	2	Clamp, Hose	
22	2701430	1	Transmission, Suzuki MT5	Includes Clutch Disc and Cover
23	11741-85200	1	• Support, Transmission	
24	01550-08163	4	• Screw	
25	11710-77100	1	• Bracket, Rear Mount	
26	08310-00103	1	• Nut	
27	09103-08132	2	• Bolt, #1 M8 x 100 mm	
28	843323	1	Adapter, Transmission	
29	452401	2	Screw, M10-1.5 x 40 mm Flange	
30	28825-G01	2	Screw, M8-1.25 x 50 mm Flange	
31	306325	2	Lockwasher, 5/16	
32	103867	2	Flat Washer, 5/16	
33	01117-G02	1	Screw, M10-1.25 x 50 mm Flange	
34	01117-G01	1	Screw, M10-1.25 x 35 mm Flange	
35	842961	2	Sleeve, Alignment	
36	844198	1	Cover, Starter Hole	
37	548849	2	Screw, 3/8-16 x 4-3/4" Hex Head	
38	REF	1	Mount, Transmission	See 12.1
39	600989	1	Adapter	
40	843857	1	Temp Sender	

&gt; Change from previous revision

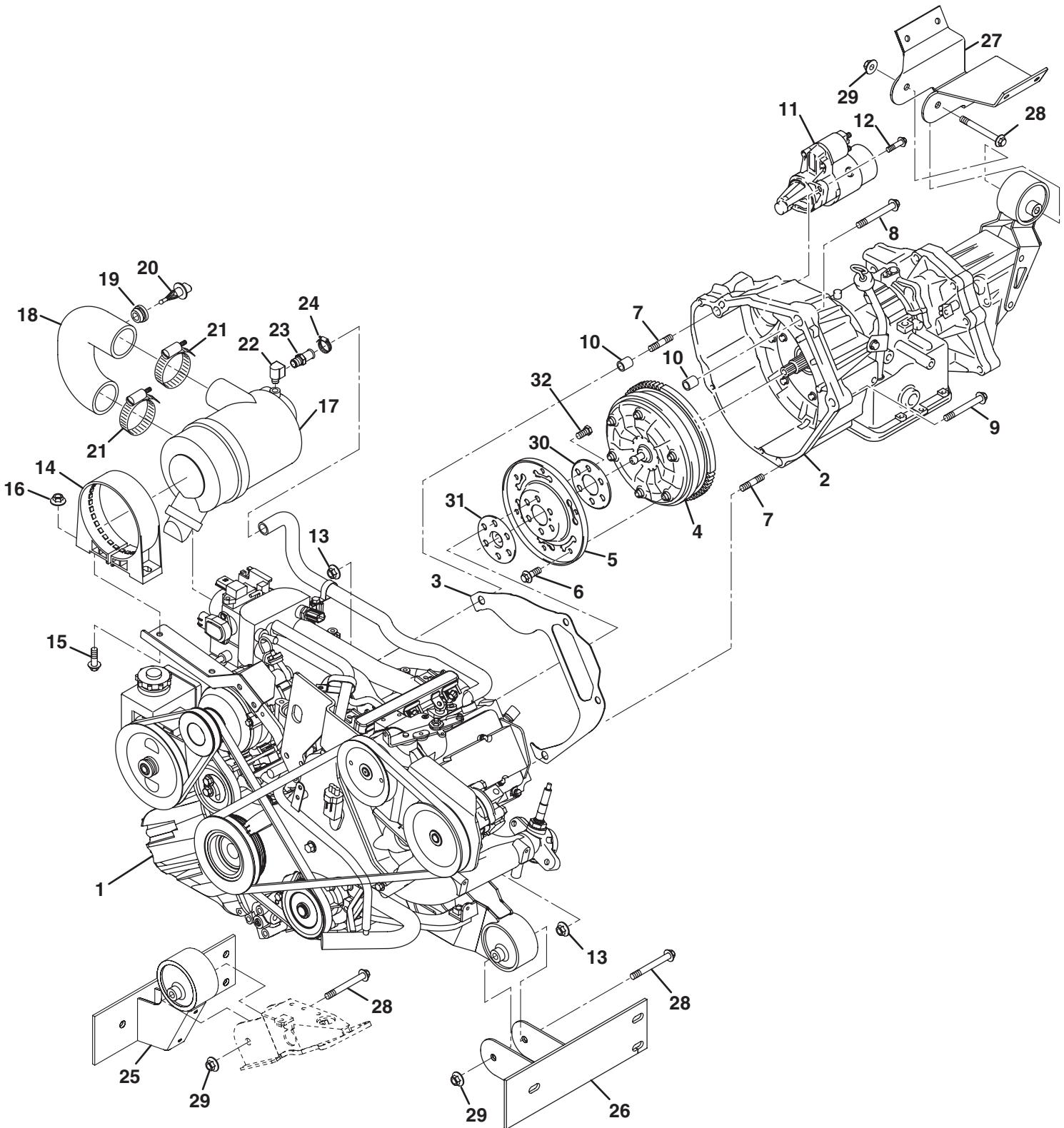
## 22.1 Gas Engine and MT Mounting

Serial No. 898627 All  
Serial No. 84054 All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	REF	1	Engine Assembly	See 25.1
2	4138963	1	Manual Transmission	See...
3	11311-67H00	1	Plate, Clutch Housing	
4	2702548	1	Clutch Disc	
5	4117900	1	Pressure Plate	
6	2702547	6	Screw, M8-1.25 x 16 mm Lockwasher	
7	2702688	2	Stud, M10-1.25 x 65 mm	
8	2702687	1	Screw, M10-1.25 x 75 mm Flange	
9	2702686	1	Screw, M10-1.25 x 55 mm Flange	
10	2702690	2	Alignment Pins	
11	2702893	1	Starter, Manual Transmission	
12	2702470	2	Screw, M8-1.25 x 30 mm Hex Flange	
13	2702689	2	Nut, M10-1.25 Hex Flange	
14	842915	1	Bracket, Air Filter	
15	452389	2	Screw, M8-1.25 x 25 mm Hex Flange	
16	450453	2	Nut, M8-1.25 Hex Flange	
17	4118027	1	Air Filter	
	840352	1	• Element, Air Filter	
18	36116G01	1	Hose, Engine Air Intake	
19	4140617	1	• Grommet	
20	4140618	1	• Sensor, Air Temp	
21	825358	2	Clamp, 2-3/4" Worm Drive	
22	4118423	1	Elbow, 1/4 NPT Street	
23	4118422	1	Hose Fitting, 1/4 NPT Brass	
24	832033	1	Clamp, 5/8" to 1" Worm Drive	
25	REF	1	Left Engine Mount	See 12.1
26	REF	1	Right Engine Mount	See 12.1
27	REF	1	Transmission Mount	See 12.1
28	452405	3	Screw, M10-1.5 x 80 mm Flange	
29	450454	3	Nut, M10-1.5 Hex Flange	

&gt; Change from previous revision



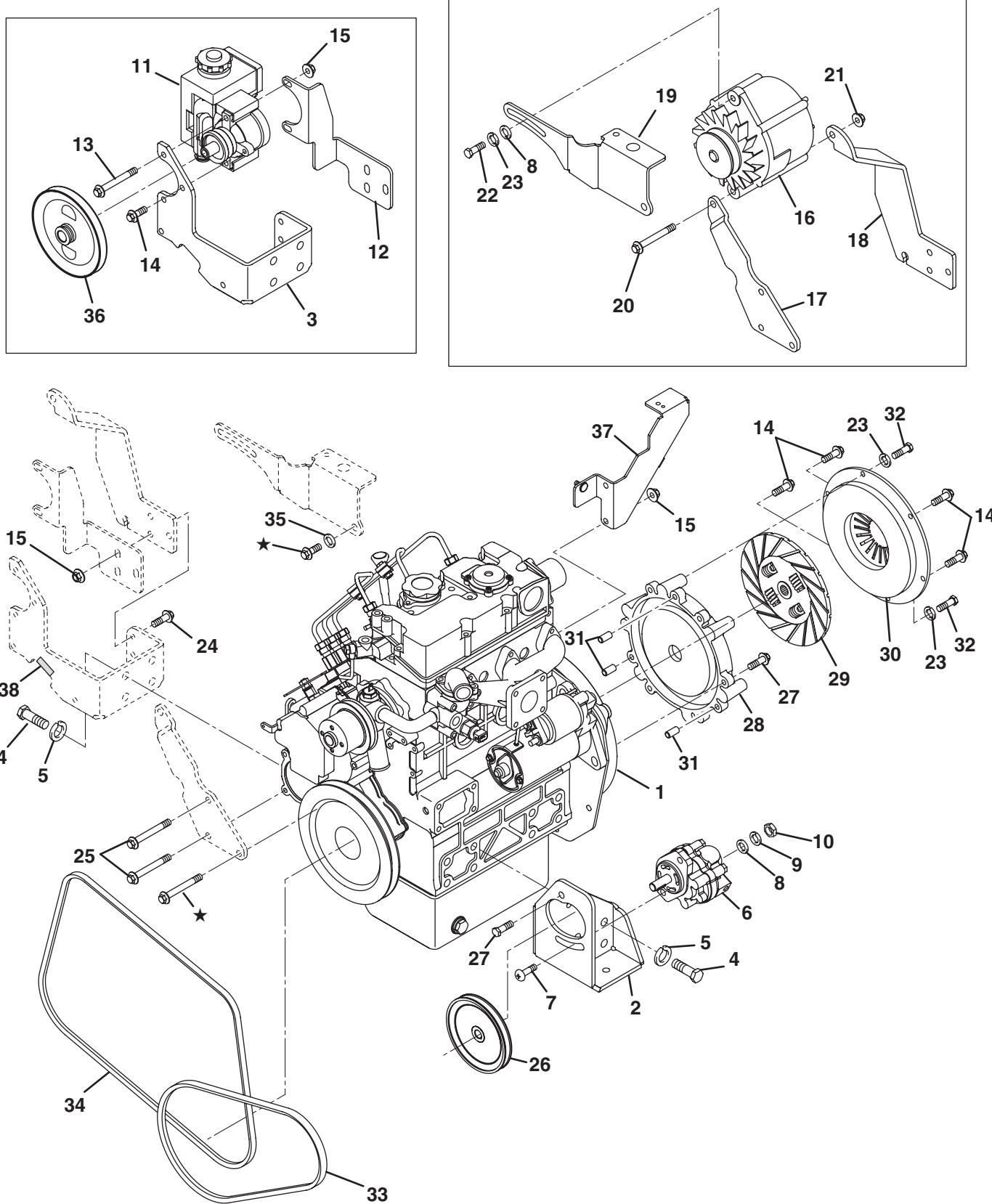
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	REF	1	Engine Assembly	See 25.1
2	4138668	1	Automatic Transmission	See...
3	11311-67H20	1	Plate, Transmission Housing	
4	2702701	1	Torque Converter	
5	4120097	1	Plate, Drive	
6	2702702	6	Screw, M8-1.25 x 9.5 mm Flange	
7	2702688	2	Stud, M10-1.25 x 65 mm	
8	2702686	1	Screw, M10-1.25 x 55 mm Flange	
9	2702756	1	Screw, M10-1.25 x 50 mm Flange	
10	2702690	2	Alignment Pins	
11	2702906	1	Starter, Automatic Transmission	
12	2702470	2	Screw, M8-1.25 x 30 mm Hex Flange	
13	2702689	2	Nut, M10-1.25 Hex Flange	
14	842915	1	Bracket, Air Filter	
15	452389	2	Screw, M8-1.25 x 25 mm Hex Flange	
16	450453	2	Nut, M8-1.25 Hex Flange	
17	4118027	1	Air Filter	
	840352	1	• Element, Air Filter	
18	36116G01	1	Hose, Engine Air Intake	
19	4140617	1	• Grommet	
20	4140618	1	• Sensor, Air Temp	
21	825358	2	Clamp, 2-3/4" Worm Drive	
22	4118423	1	Elbow, 1/4 NPT Street	
23	4118422	1	Hose Fitting, 1/4 NPT Brass	
24	832033	1	Clamp, 5/8" to 1" Worm Drive	
25	REF	1	Left Engine Mount	See 12.1
26	REF	1	Right Engine Mount	See 12.1
27	REF	1	Transmission Mount	See 12.1
28	452405	3	Screw, M10-1.5 x 80 mm Flange	
29	450454	3	Nut, M10-1.5 Hex Flange	
30	4120098	1	Plate, Rear Drive	
31	4120096	1	Flange, Drive Plate	
32	4119955	6	Screw, M10-1.25 x 18.5 mm	

&gt; Change from previous revision

# **TURF TRUCKSTER**

## 24.1 Diesel Engine and Clutch

Serial No. 84043 All  
Serial No. 84044 All



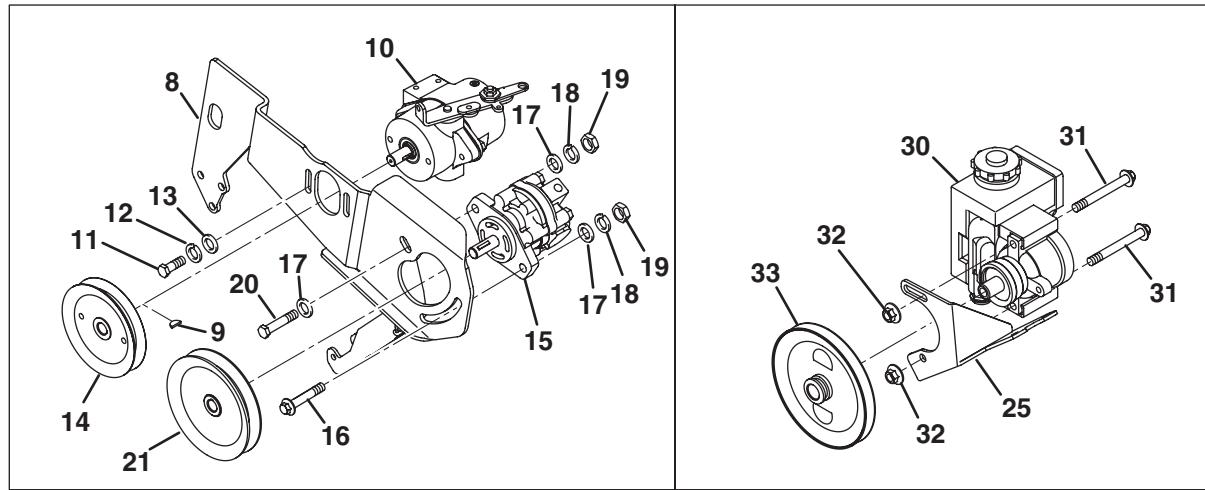
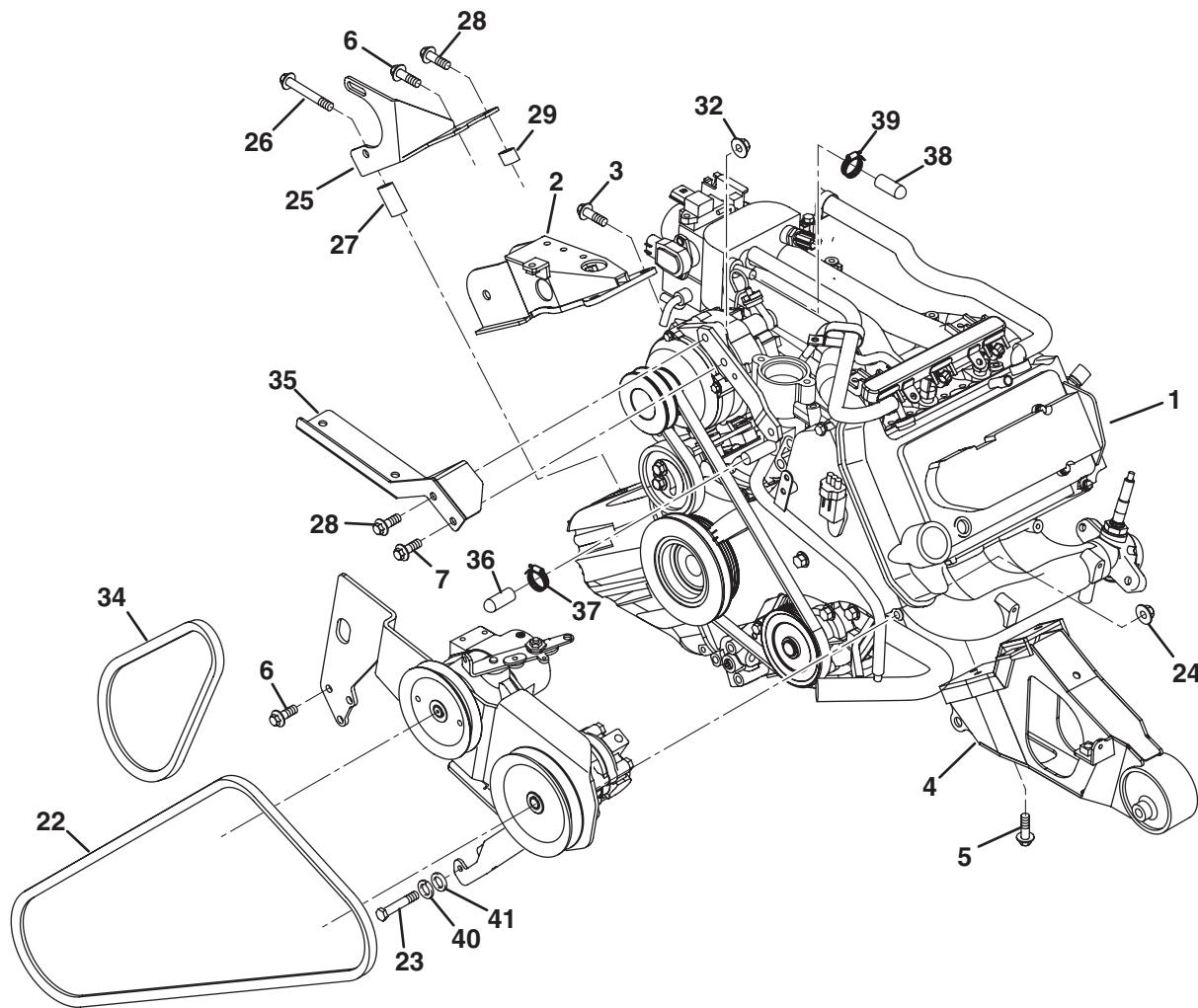
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	N/S	1	Engine, Perkins Model 403C-11	Spec HH70581U
	842553	1	• Engine Oil Filter	
	185086321	1	• Starter	Order directly from Perkins
2	843760	1	Bracket, Hydraulic Pump	
3	844272	1	Mount, Right Side Engine	
4	838440	8	Screw, M12-1.25 x 25 mm Flange	
5	120166	8	Lockwasher, 1/2	
6	REF	1	Pump, Hydraulic	See 35.1
7	800073	1	Carriage Bolt, 3/8-16 x 1-1/4"	
8	306981	2	Flat Washer, 3/8	
9	120177	2	Lockwasher, 3/8	
10	306562	2	Nut, 3/8-16 Hex	
11	REF	1	Pump, Power Steering	See 18.1
12	844268	1	Bracket, Rear Power Steering Mount	
13	452395	2	Screw, M8-1.25 x 80 mm Flange	
14	452388	5	Screw, M8-1.25 x 20 mm Flange	
15	450453	7	Nut, M8-1.25 Flange	
16	893633	1	Alternator	
17	844270	1	Bracket, Front Alternator Mount	
18	844271	1	Bracket, Rear Alternator Mount	
19	600981	1	Bracket, Alternator Adjusting	
20	311213	1	Screw, 3/8-16 x 3" Flange	
21	548804	1	Nut, 3/8-16 Flange	
22	306416	1	Screw, 5/16-18 x 1" Hex Head	
23	306325	3	Lockwasher, 5/16	
24	452390	3	Screw, M8-1.25 x 30 mm Flange	
25	452394	2	Screw, M8-1.25 x 70 mm Flange	
26	842996	1	Pulley, 4"	
27	306835	1	Screw, 3/8-16 x 1-1/4" Hex Head	
28	894645	1	Ring, Pressure Plate	
29	22400-85141	1	Disc, Clutch	Included with Transmission
30	22100-85200	1	Cover, Clutch	Included with Transmission
31	839752	3	Dowel Pin, 8 x 18 mm	
32	09111-08035	2	Screw, M8-1.25 Special	Included with Transmission
33	841966	1	Belt, Hydraulic Pump	
34	600997	1	Belt, Alternator - Power Steering	48"
35	103867	1	Flat Washer, 3/8	
36	600993	1	Pulley, 5.8" Power Steering	
37	REF	1	Throttle Bracket	
38	821893	AR	Trim, Push On	
★	Indicates hardware included with Engine.			

&gt; Change from previous revision

# TURF TRUCKSTER

## 25.1 Suzuki Gas Engine

Serial No. 898627 All  
Serial No. 898628 All  
Serial No. 84054 All

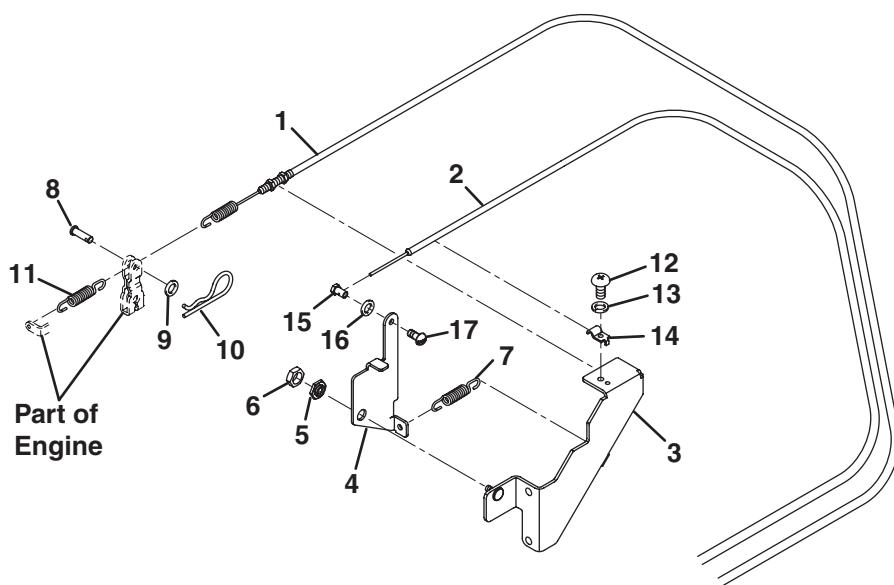


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	N/S	1	Suzuki K6 Engine	
	2701908	1	• Oil Filter	
	4120026	1	• Belt, Water Pump and Alternator	
2	4120017	1	• Right Side Engine Mount	
3	01550-10253	3	• Bolt, Right Side Engine Mount	
4	11710-65H01	1	• Left Side Engine Mount	
5	2701827	4	• Bolt, Left Side Engine Mount	
6	2702469	4	• Bolt	
7	4119603	1	• Bolt, M8 x 25 mm Hex Flange	
8	601599	1	Bracket, Governor	
9	2702249	1	Key, Woodruff 1/8 x 1/2"	
10	4115000	1	Governor	See ...
11	306450	2	Screw, 5/16-18 x 3/4" Hex Head	
12	306325	2	Lockwasher, 5/16	
13	103867	2	Flat Washer, 5/16	
14	842996	1	Pulley, 4-1/4" Diameter	Includes two set screws
15	REF	1	Pump, Hydraulic	See 35.1
16	13437G5	1	Screw, 3/8-16 x 1-1/2" Whizlock	
17	306981	3	Flat Washer, 3/8	
18	120177	2	Lockwasher, 3/8	
19	306562	2	Nut, 3/8-16 Hex	
20	302600	1	Screw, 3/8-16 x 1-1/2" Hex Head	
21	600994	1	Pulley, 4-3/4" Diameter	Includes two set screws
22	4115406	1	Belt, 7/16 x 54-1/4" V	Hydraulic Pump and Governor
23	450179	1	Bolt, M6-1 x 60 mm Hex Head	
24	450452	1	Nut, M6-1 Hex Flange	
25	4115183.7	1	Bracket, Power Steering Pump	
26	452381	1	Screw, M6-1 x 40 mm Hex Flange	
27	4117464	1	Spacer, 7/16 x 1-3/32"	
28	452389	2	Screw, M8-1.25 x 25 mm Hex Flange	
29	4117459	1	Spacer, 7/16 x 11/32"	
30	REF	1	Pump, Power Steering	See 18.1
31	452395	2	Screw, M8-1.25 x 80 mm Hex Flange	
32	450453	3	Nut, M8-1.25 Hex Flange	
33	600993	1	Pulley, 5.80" Diameter	
34	4115404	1	Belt, 7/16 x 25" V	Alternator and Power Steering
35	4115792.7	1	Bracket, Air Cleaner	
36	833715	1	Plug, Tube	
37	832033	1	Clamp, 5/8" to 1" Worm Drive	
38	845224	4	Plug, Tube	
39	825624	4	Clamp, 1/4" to 5/8" Worm Drive	
40	306396	1	Lockwasher, 1/4	
41	308090	1	Flat Washer, 1/4	

&gt; Change from previous revision

## 26.1 Engine Speed Control

Serial No. 84043 All  
Serial No. 84044 All

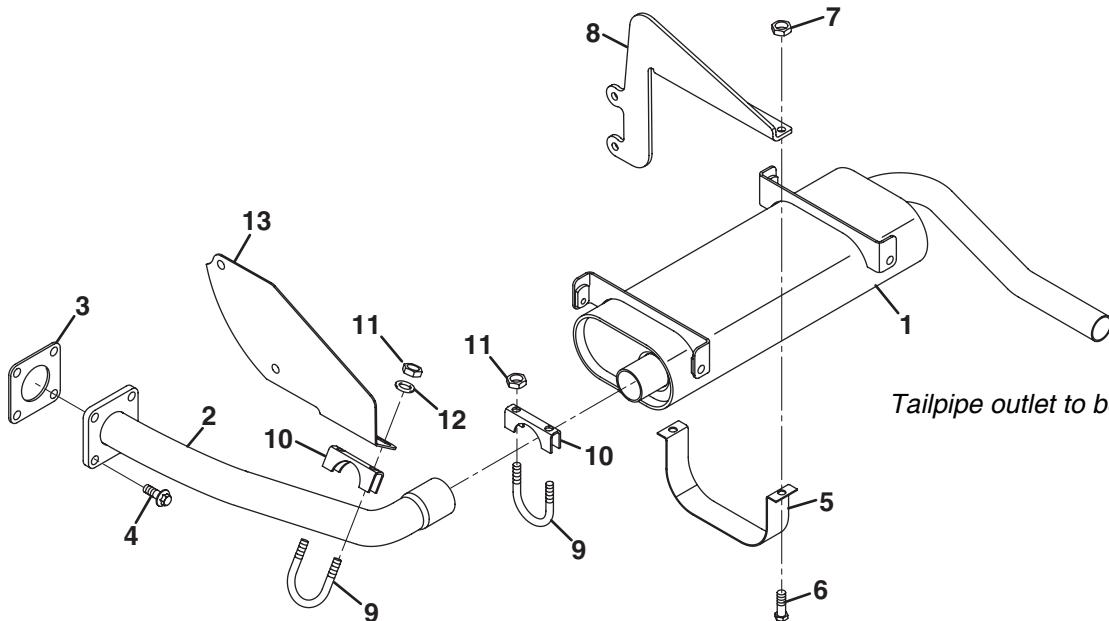


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2703683	1	Throttle Cable	See 4.1 for other end of cable
2	844130	1	Cable, Governor Control	See 4.1 for other end of cable
3	894591	1	Bracket, Throttle	See 24.1 for Mounting Location
4	844274	1	Lever, Governor	
5	835271	1	Nut, 1/4-20 Lever Pivot	
6	130728	1	Nut, 1/4-20 Hex Jam	
7	840473	1	Spring, Governor Lever	
8	812444	1	Clevis Pin, 5/16 x 3/4"	
9	103867	1	Flat Washer, 5/16	
10	821164	1	Hair Pin	
11	842785	1	Spring, Idle Return	
12	800271	1	Screw, #10-24 x 1/2" Pan Head	
13	120052	1	Lockwasher, #10	
14	111898	1	Clamp, Cable	
15	831888	1	Swivel	
16	831889	1	Washer, Swivel	
17	831890	1	Screw, Swivel Throttle Cable	

> Change from previous revision

## 27.1 Exhaust

Serial No. 898627 All  
 Serial No. 898628 All  
 Serial No. 84054 All



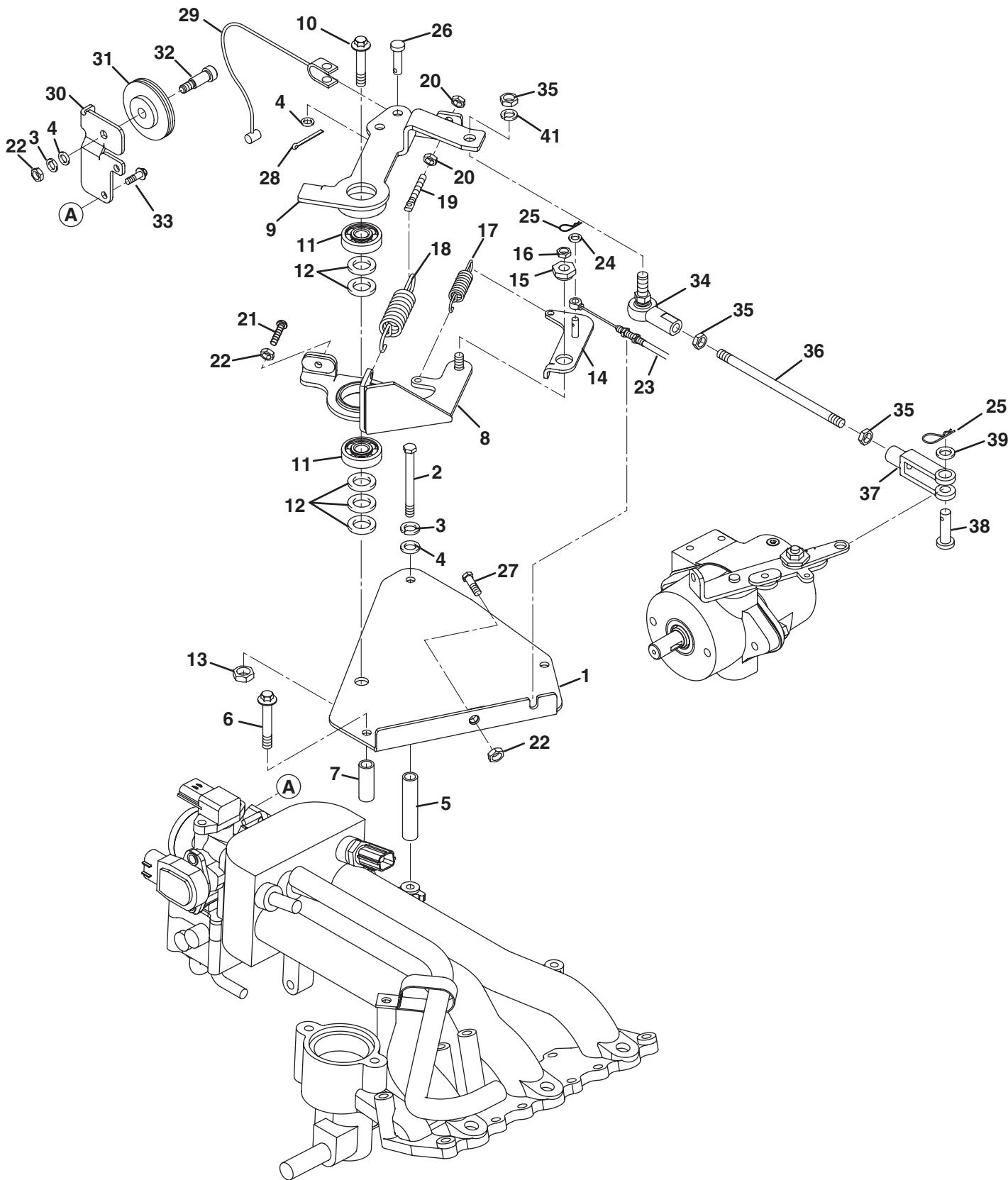
*Tailpipe outlet to be parallel to ground.*

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4119866.8	1	Muffler	
2	2703800.8	1	Tube, Exhaust Inlet	
3	314990013	1	Gasket, Exhaust	Order directly from Perkins
4	452389	4	Screw, M8-1.25 x 25 mm Flange	
5	838295.8	1	Strap, Muffler Hanger	
6	450193	2	Screw, M8-1.25 x 30 mm Hex Head	
7	450378	2	Locknut, M8-1.25	
8	REF 841982	1	Bracket, Muffler	See 21.1
9	N/S	1	• U-Bolt	
10	N/S	1	• Bracket	
11	N/S	2	• Nut, 5/16-18 Hex	
12	103867	2	Flat Washer, 5/16	
13	REF	1	Cover, Starter Hole	See 21.1

> Change from previous revision

## 28.1 Governor Linkage

Serial No. 898627 All  
Serial No. 898628 All  
Serial No. 84054 All



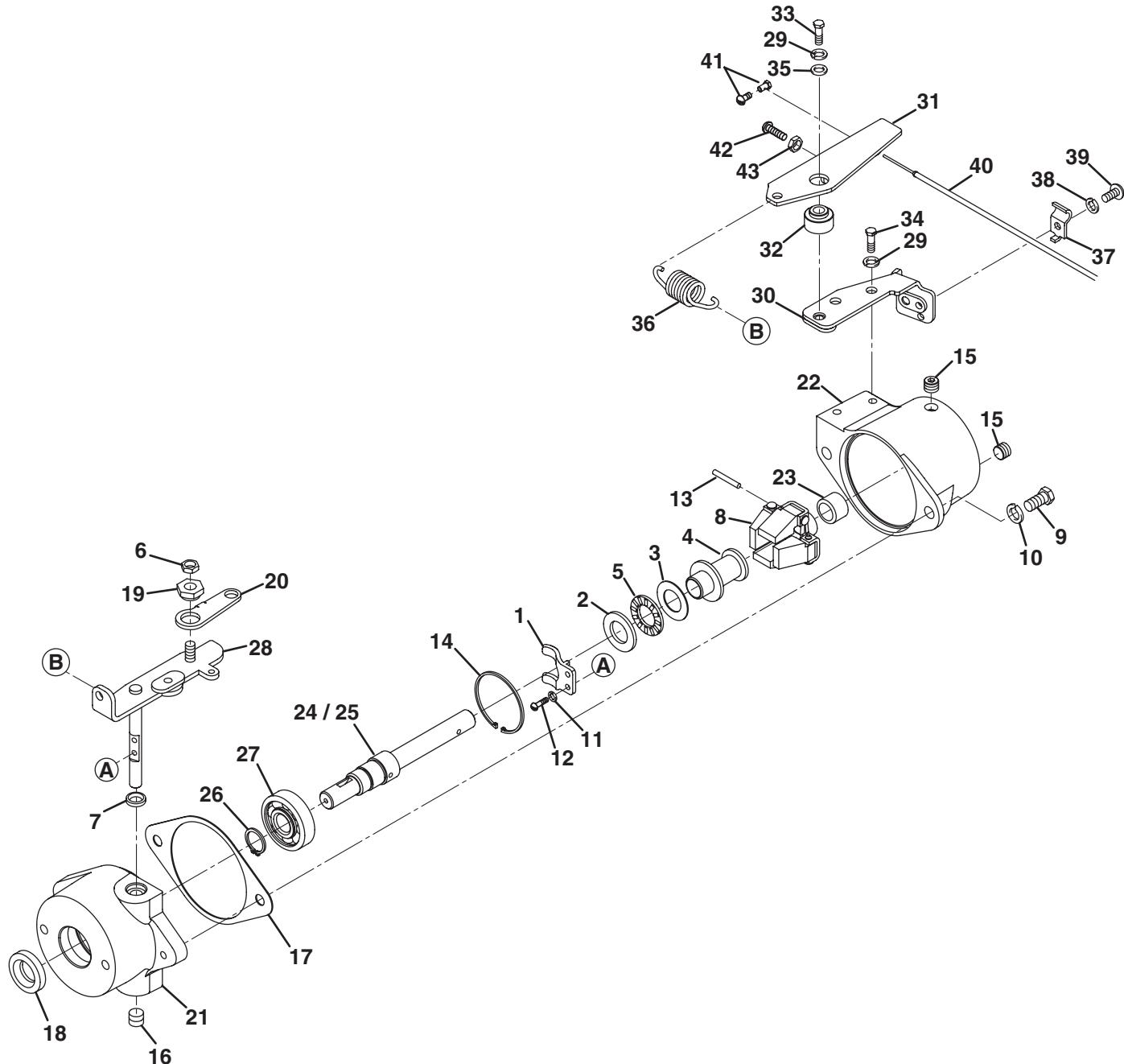
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4115258	1	Plate, Governor	
2	450010	2	Screw, M6-1 x 75 mm Hex Head	
3	306396	2	Lockwasher, 1/4	
4	308090	4	Flat Washer, 1/4	
5	4119526	2	Spacer, 7/16 x 2-1/8"	
6	452381	1	Screw, M6-1 x 40 mm Hex Flange	
7	2700522	1	Spacer, 7/16 x 1"	
8	2700540	1	Lever, Governor	
9	2700859	1	Lever, Governor Arm	
10	01116-G01	1	Screw, M10-1.5 x 40 mm Hex Flange	
11	830140	2	Ball Bearing	
12	306981	5	Flat Washer, 3/8	
13	450454	1	Nut, M10-1.5 Hex Flange	
14	2701129	1	Arm, Throttle	
15	835271	1	Nut, Governor	
16	130728	3	Nut, 1/4-20 Hex Jam	
17	2700335	1	Spring, Governor	
18	2700334	1	Spring, Governor	
19	111893	1	Screw, #10-32 Special	
20	2702244	2	Nut, #10-32 Hex	
21	800024	1	Screw, 1/4-20 x 1-1/2" Truss Head	
22	306375	3	Nut, 1/4-20 Hex	
23	2703684	1	Throttle Cable	See 4.1
24	450399	1	Flat Washer, M6	
25	821164	2	Hair Pin, 1/4 x 1-1/8"	
26	818395	1	Clevis Pin, 1/4 x 1/2"	
27	302288	1	Screw, 1/4-20 x 1"	
28	306372	1	Cotter Pin, 3/32 x 1/2"	
29	4116159	1	Cable, Throttle	
30	2701510	1	Bracket, Throttle Cable	
31	843013	1	Pulley, Governor	
32	800927	1	Shoulder Bolt, 1/4-20 x 5/8"	
33	REF	2	Bolt	Part of Engine
34	831586	1	Ball Joint	
35	306320	3	Nut, 5/16-24 Hex	
36	4117352	1	Rod, Governor	
37	810722	1	Yoke	
38	806703	1	Clevis Pin, 5/16 x 31/32"	
39	103867	1	Flat Washer, 5/16	
40	306325	1	Lockwasher, 5/16 Special	

&gt; Change from previous revision

# TURF TRUCKSTER

## 29.1 Governor

Serial No. 898627 All  
Serial No. 898628 All  
Serial No. 84054 All

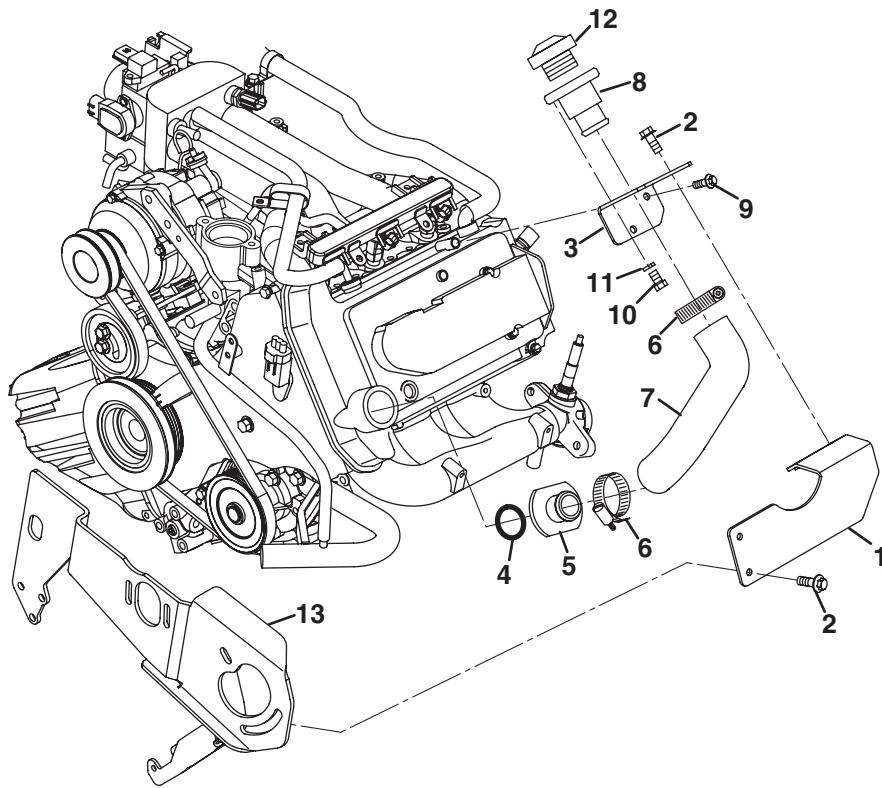


Item	Part No.	Qty.	Description	Serial Numbers/Notes
	4115000	1	Governor	
1	111812	1	• Yoke, Spool	
2	111814	1	• Washer, Thrust	
3	111816	1	• Washer, Thrust	
4	111817	1	• Spool, Governor	
5	112840	1	• Bearing, Thrust	
6	130728	1	• Nut, 1/4-20 Hex Jam	
7	111813	1	• Seal, Shaft	
8	160410	1	• Carrier & Weights	
9	302288	2	• Screw, 1/4-20 x 1" Hex Head	
10	306396	2	• Lockwasher, 1/4	
11	306506	2	• Lockwasher, #6	
12	306915	2	• Screw, #6-32 x 5/16" Machine	
13	603102	1	• Roll Pin, 1/8 x 3/4"	
14	548325	1	• Ring, Retaining	
15	800227	2	• Plug, 1/8 NPT	
16	800558	1	• Set Screw, 3/8-16 x 5/16"	
17	833056	1	• Gasket, Governor	
18	833102	1	• Seal, Oil	
19	835271	1	• Nut, Governor Arm	
20	843537	1	• Bracket, Governor Knee	
21	4114867	1	• Head, Governor	
22	894471	1	• Reservior, Governor	
23	833103	1	• • Bearing, Needle	
24	4119678	1	• Shaft, Governor Complete	
25	4117681	1	• • Shaft, Governor	
26	833104	1	• • Ring, Retaining	
27	833345	1	• • Bearing, Ball	
28	2700525	1	• Lever, Governor Control	
29	306396	2	Lockwasher, 1/4	
30	894435	1	Bracket, Throttle	
31	894434	1	Arm	
32	843866	1	Bushing, Governor	
33	302288	1	Screw, 1/4-20 x 1" Hex Head	
34	00414-G5	2	Screw, Hex Head	
35	308090	1	Flat Washer, 1/4	
36	833101	1	Spring, Extension	
37	111898	2	Clamp, Cable	
38	120052	1	Lockwasher, #6	
39	306514	1	Screw, #10-32 x 1/2" Truss	
40	844130	1	Governor Cable	
41	817104	1	Stop, Wire	
42	800024	1	Screw, 1/4-20 x 1-1/2"	
43	306375	1	Nut, 1/4-20 Hex	

*> Change from previous revision*

## 30.1 Gas Engine Remote Oil Fill

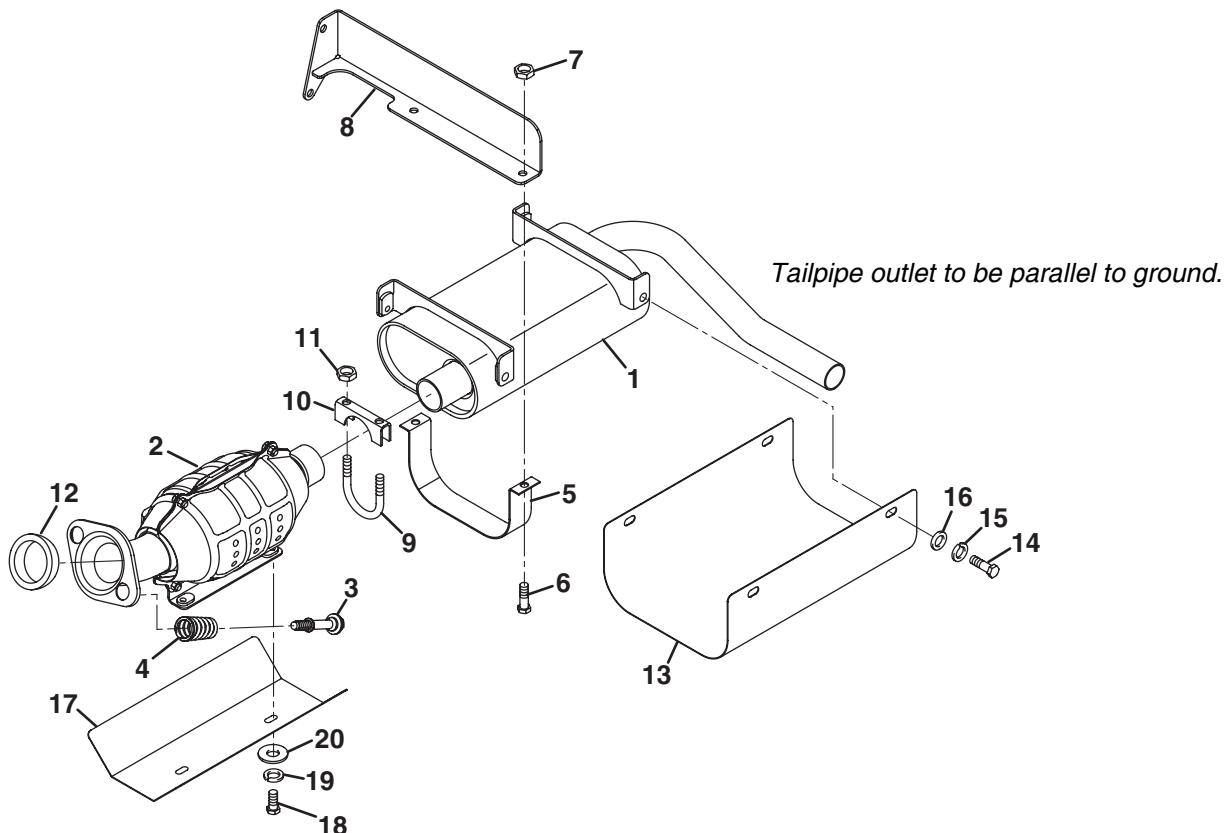
Serial No. 898627 All  
 Serial No. 898628 All  
 Serial No. 84054 All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	601942	1	Brace, Governor	
2	548827	4	Screw, 1/4-20 x 1/2 Hex Flange	
3	601580	1	Bracket, Remote Oil Fill	
4	843420	1	O-Ring	
5	843399	1	Adapter, Valve Cover	
6	836206	2	Clamp, 1-7/8" Worm Drive	
7	2701636	1	Hose, Remote Oil Fill	
8	2701640	1	Adapter, Oil Cap	
9	800934	3	Screw, M6-1 x 16 mm Hex Flange	
10	800425	2	Screw, M6-1 x 12 mm Hex Head	
11	306396	2	Lockwasher, 1/4	
12	16920-83G00	1	Cap, Oil Fill	Included with Engine
13	REF	1	Bracket, Governor	See 25.1

> Change from previous revision

## 31.1 Gas Engine Exhaust

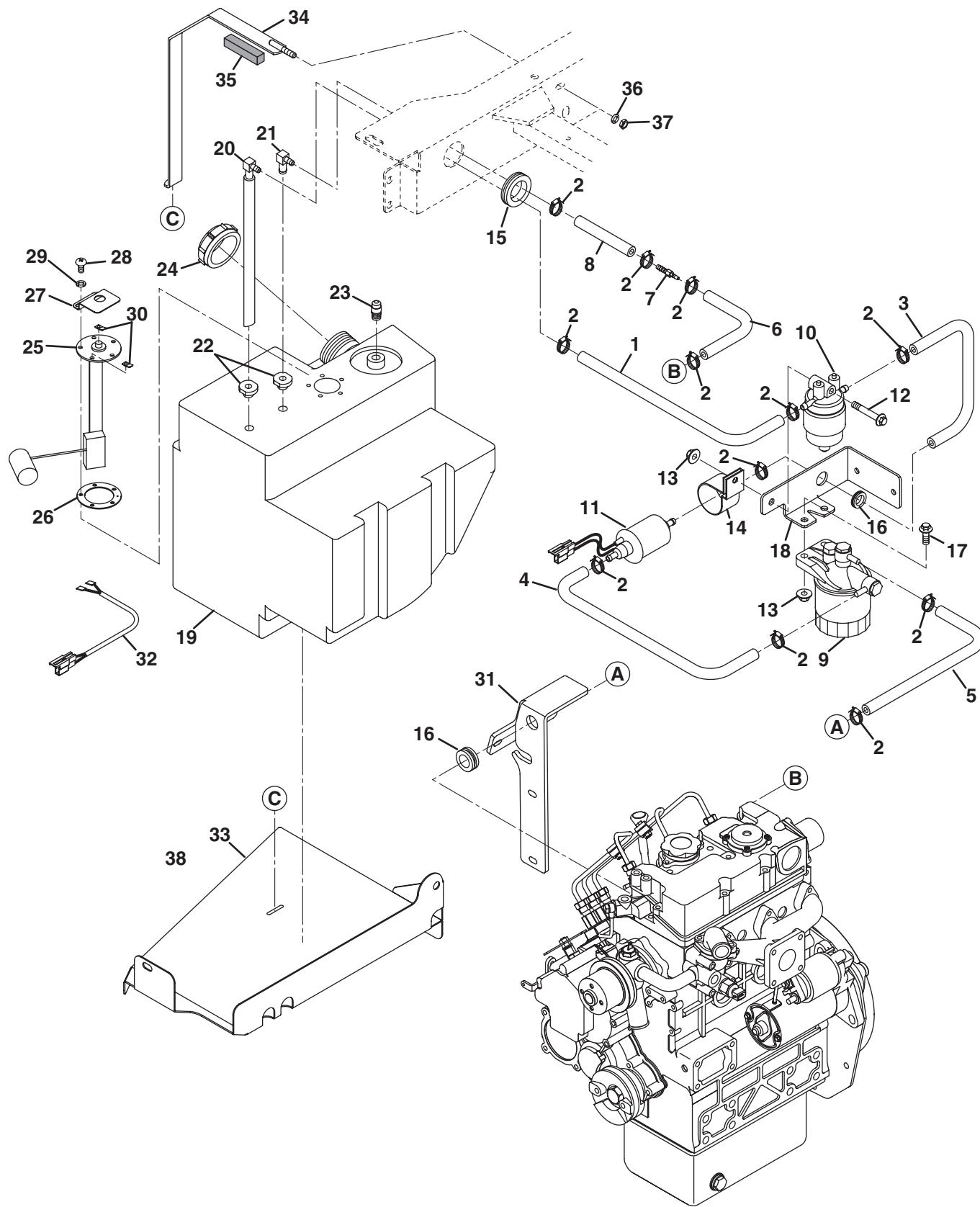


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4116284.8	1	Muffler	
2	36072-G01	1	Catalytic Converter	
3	2700144	2	Bolt, Muffler Flange	
4	2700145	2	Spring, Muffler Flange	
5	838295.8	1	Strap, Muffler Hanger	
6	450193	2	Screw, M8-1.25 x 30 mm Hex Head	
7	450378	2	Locknut, M8-1.25	
8	4114221.8	1	Bracket, Muffler	
	841982	2	Clamp, 1-1/2" Exhaust	Attaches to Transmission Case
9	N/S	1	• U-Bolt	
10	N/S	1	• Bracket	
11	N/S	2	• Nut, 5/16-18 Hex	
12	2700143	1	Ring, Muffler Flange	
13	4121517.8	1	Shield, Muffler	
14	306450	4	Screw, 5/16-18 x 3/4" Hex Head	
15	306325	4	Lockwasher, 5/16	
16	103867	4	Flat Washer, 5/16	
17	4121525.8	1	Shield, Catalytic Converter	
18	306419	2	Screw, 1/4-20 x 1/2" Hex Head	
19	306396	2	Lockwasher, 1/4	
20	815680	2	Washer, Special	

&gt; Change from previous revision

## 32.1 Diesel Fuel System

Serial No. 84043 All  
Serial No. 84044 All

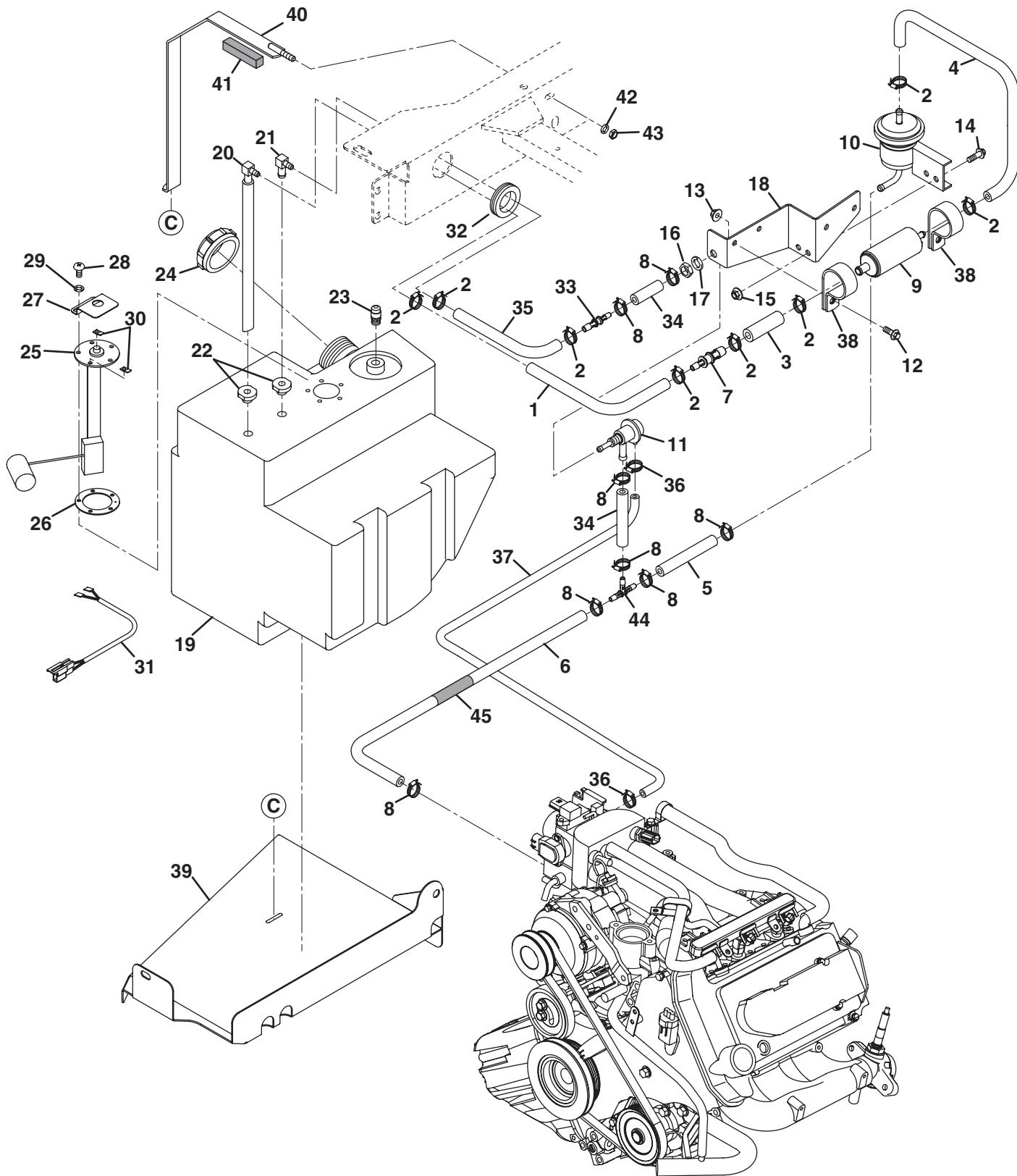


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	826590	1	Hose, Fuel Tank to Trap 5/16"	25 Foot Roll, Cut to 13-1/2"
2	825624	12	Clamp, Hose	
3	826590	1	Hose, Pre Filter to Pump 5/16"	25 Foot Roll, Cut to 9-1/2"
4	826590	1	Hose, Pump to Fuel Filter 5/16"	25 Foot Roll, Cut to 14"
5	826590	1	Hose, Fuel Filter to Engine 5/16"	25 Foot Roll, Cut to 21"
6	831039	1	Hose, Engine Fuel Return 3/16"	25 Foot Roll, Cut to 7"
7	834036	1	Connector, 1/4" Hose to 3/16" Hose	
8	830425	1	Hose, Fuel Return 1/4"	25 Foot Roll, Cut to 15-1/2"
	REF	1	Engine	
9	2208175	1	• Fuel Filter	
10	130306380	1	• Trap, Fuel Water	Order Directly from Perkins
11	894638	1	Pump, Electric Fuel	
12	452393	1	Screw, M8-1.25 x 60 mm Flange	
13	450453	3	Nut, M8-1.25 Flange	
14	838154	1	Bracket, Fuel Pump Mounting	
15	829997	1	Grommet	
16	809231	2	Grommet, Split	
17	452390	2	Screw, M8-1.25 x 30 mm Flange	
18	REF	1	Bracket, Fuel System	See 13.1
19	841969	1	Fuel Tank	
20	843726	1	• Tube, Fuel Pick Up	
21	148231	1	• Elbow, 90° Fuel	
22	48310	2	• Grommet, Fuel Tank	
23	836852	1	• Breather	
24	843343	1	Cap, Unvented Fuel	
25	843298	1	Sender, Fuel Level	
26	829954	1	Gasket, Fuel Tank	
27	833953	1	Cover, Fuel Sender	
28	800021	5	Screw, #10-32 x 1/2" Pan Head	
29	120052	5	Lockwasher, #10	
30	829787	2	Terminal, 1/4" Male	
31	REF	1	Bracket, Air Filter Mount	See 21.1
32	894201	1	Harness, Fuel Sender	
33	REF	1	Support, Tank	See 12.1
34	893555	1	Strap, Tank	
35	834005	1	Seal, Foam	
36	103867	1	Flat Washer, 5/16	
37	800221	1	Locknut, 5/16-18 Center	

&gt; Change from previous revision

## 33.1 Gas Fuel System

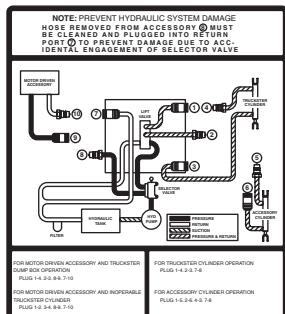
Serial No. 898627 All  
 Serial No. 898628 All  
 Serial No. 84054 All



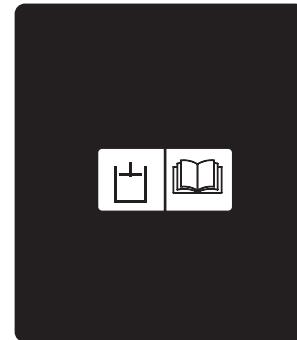
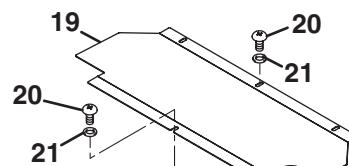
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	826590	1	Hose, Fuel Tank to Adapter 5/16"	25 Foot Roll, Cut to 14"
2	11391G4	8	Clamp, Hose	
3	7332	1	Hose, Adapter to Pump 7/16"	Cut to 3"
4	826590	1	Hose, Pump to Fuel Filter 5/16"	25 Foot Roll, Cut to 9"
5	830425	1	Hose, Fuel Filter to Tee 1/4"	25 Foot Roll, Cut to 4-1/4"
6	830425	1	Hose, Tee to Engine 1/4"	25 Foot Roll, Cut to 29"
7	4113019	1	Adapter, 5/16 to 7/16" Hose	
8	18292G1	8	Clamp, Hose	
9	2701897	1	Pump, Electric Fuel	
10	2701898	1	Fuel Filter	
11	2701899	1	Regulator, Fuel	
12	452378	2	Screw, M6-1 x 20 mm Hex Flange	
13	450452	2	Nut, M6-1 Hex Flange	
14	800930	2	Screw, M8-1.25 x 16 mm Hex Flange	
15	450453	2	Nut, M8-1.25 Hex Flange	
16	800875	1	Nut, M12-1.25 Hex	
17	309067	1	Lockwasher, 1/2" External Tooth	
18	REF	1	Bracket, Fuel System	See 13.1
19	841969	1	Fuel Tank	
20	843726	1	• Tube, Fuel Pick Up	
21	148231	1	• Elbow, 90° Fuel	
22	48310	2	• Grommet, Fuel Tank	
23	836852	1	• Breather	
24	843343	1	Cap, Unvented Fuel	
25	843298	1	Sender, Fuel Level	
26	829954	1	Gasket, Fuel Tank	
27	833953	1	Cover, Fuel Sender	
28	800021	5	Screw, #10-32 x 1/2" Pan Head	
29	120052	5	Lockwasher, #10	
30	829787	2	Terminal, 1/4" Male	
31	894201	1	Harness, Fuel Sender	
32	829997	1	Grommet	
33	4113018	1	Adapter, 5/16 to 1/4" Hose	
34	830425	2	Hose, Adapter to Regulator 1/4	25 Foot Roll, Cut to 2"
35	826590	1	Hose, Tank Return to Adapter	25 Foot Roll, Cut to 18"
36	825264	2	Clamp, Hose	
37	831039	1	Hose, Regulator to Vacuum Port	25 Foot Roll, Cut to 22"
38	2700166	1	Clamp, Filter	
39	REF	1	Support, Tank	See 12.1
40	893555	1	Strap, Tank	
41	834005	1	Seal, Foam	
42	103867	1	Flat Washer, 5/16	
43	800221	1	Locknut, 5/16-18 Center	
44	4115904	1	Adapter, 1/4" Tee	
45	7301	1	Flex Guard	Cut to 5"

&gt; Change from previous revision

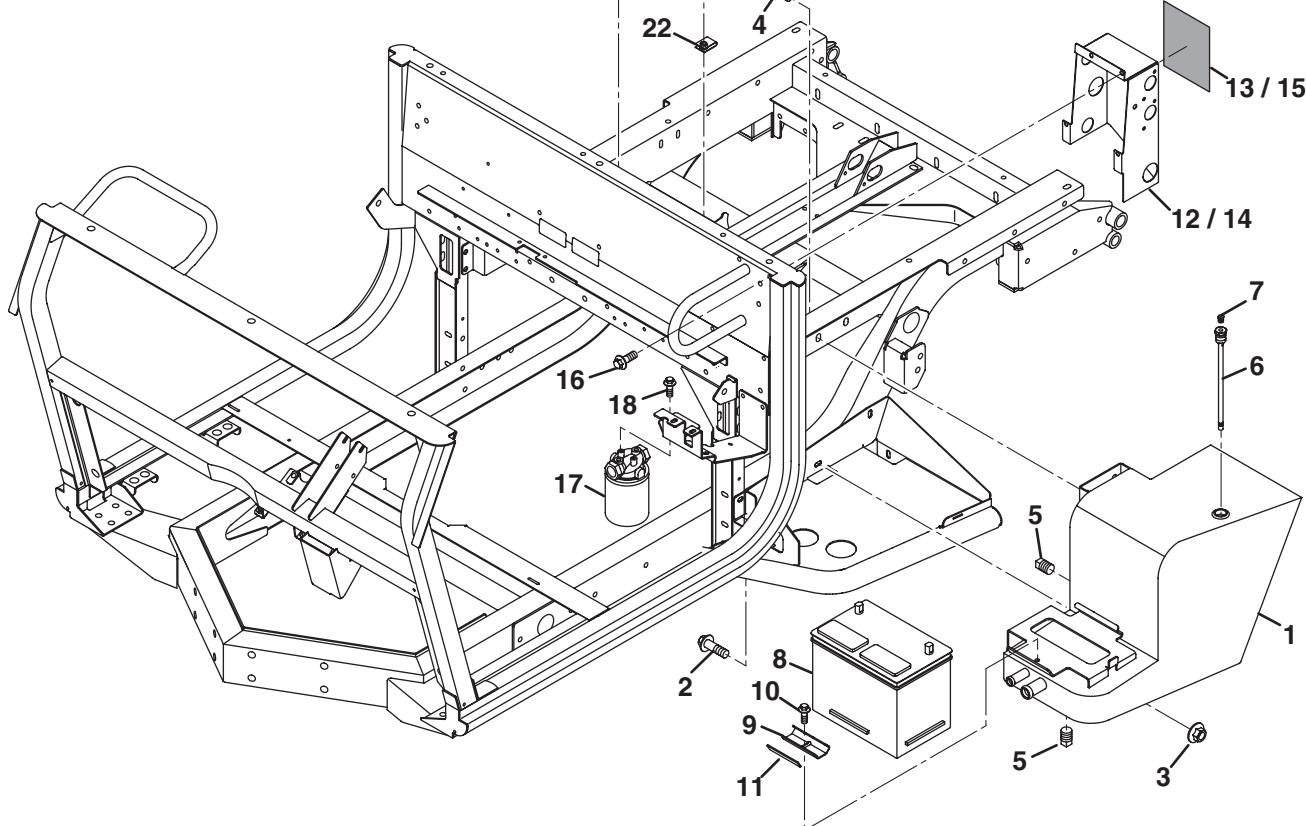
## 34.1 Hydraulic Tank and Filter



13

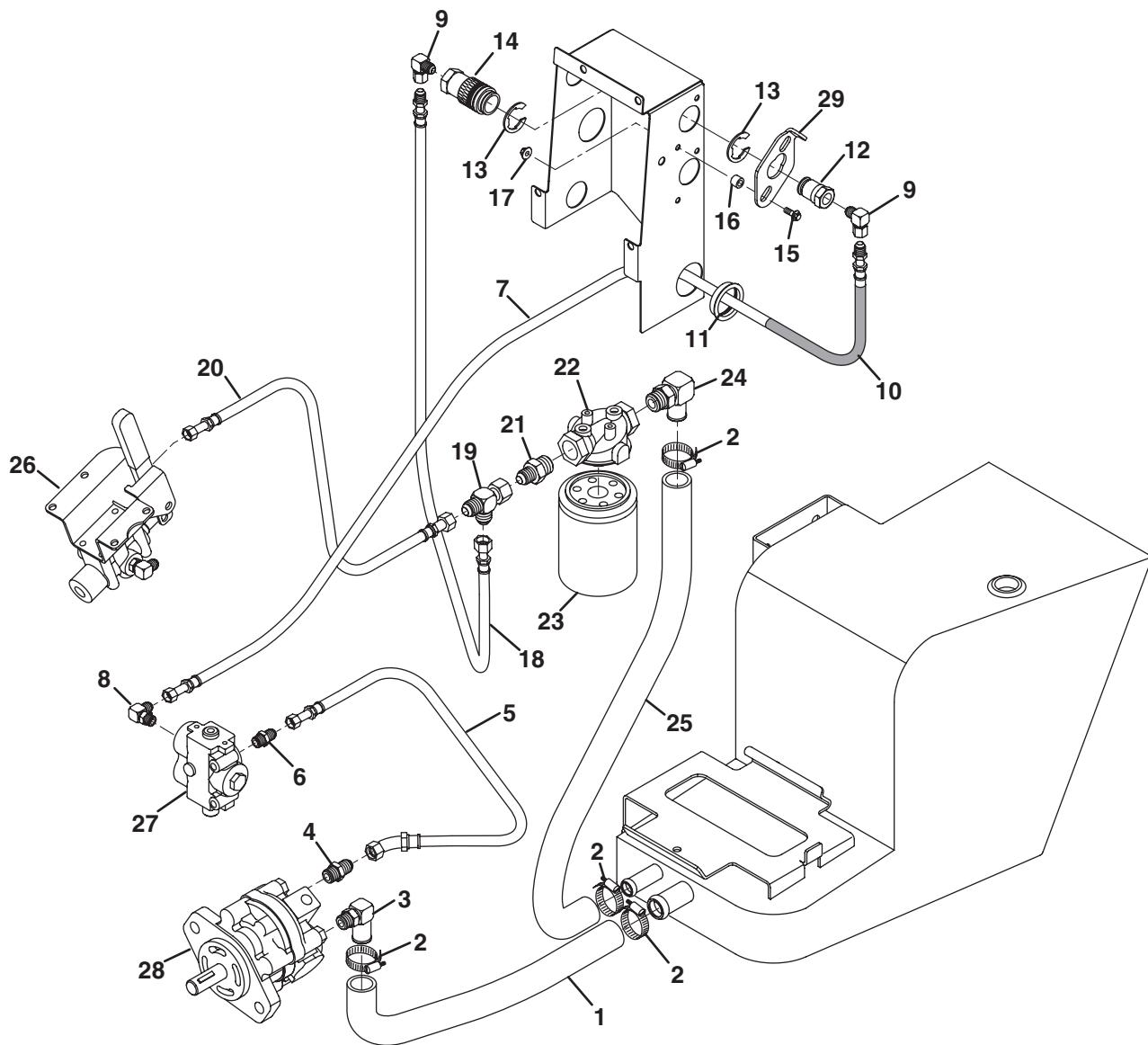


15



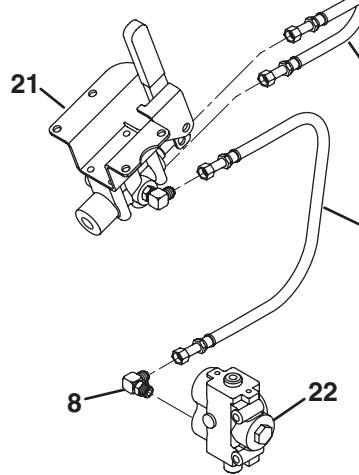
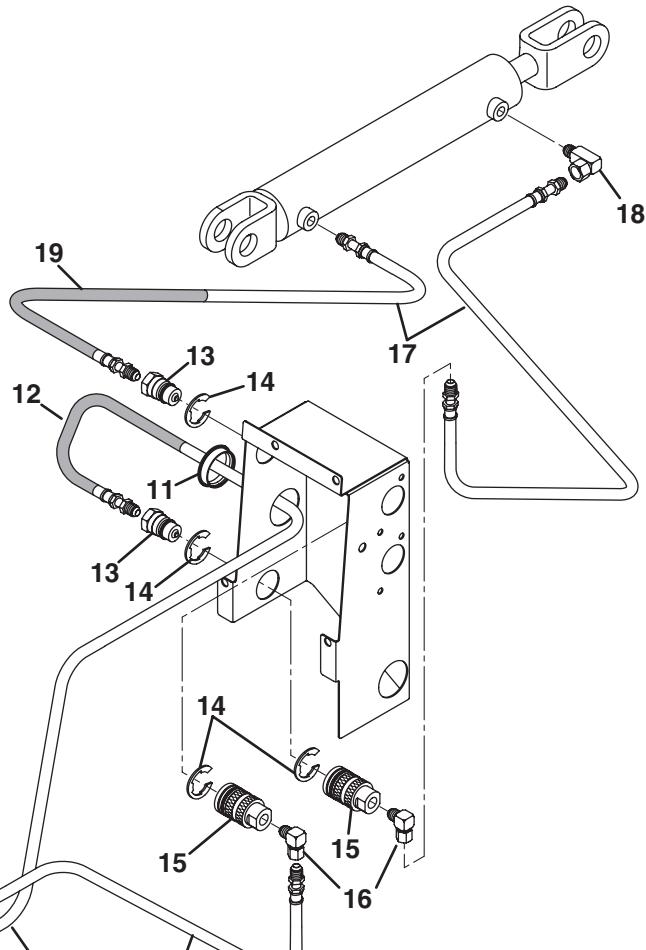
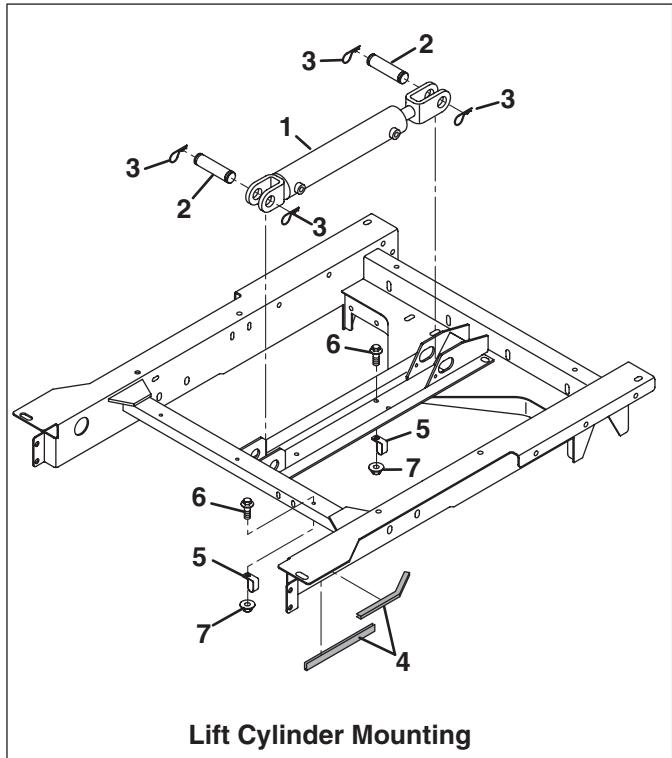
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	894675	1	Tank, Hydraulic	
2	452388	2	Screw, M8-1.25 x 20 mm Flange	
3	450453	2	Nut, M8-1.25 Hex Flange	
4	452399	2	Screw, M10-1.5 x 25 mm Flange	
5	800113	2	Plug, 1/2 NPT	
6	893539	1	Dipstick, Hydraulic Tank	
7	827486	1	Valve, Pressure Relief	
8	829800	1	Battery, 12 Volt	
9	844601	1	Bracket, Battery Clamp	
10	452389	1	Screw, M8-1.25 x 25 mm Flange	
11	844729	AR	Spacer, Battery Clamp	Add as required to secure battery
12	2700800	1	Hydraulic Cover	Used on all, except 84044
13	837270	1	• Decal, Hydraulic Connections	
14	2700801	1	Hydraulic Cover, EC	Used on 84044 Only
15	840857	1	• Decal, Hydraulic Connections	
16	800930	4	Screw, M8-1.25 x 16 mm Flange	
17	REF	1	Hydraulic Filter	
18	548827	2	Screw, 1/4-20 x 1/2" Hex Flange	
19	2701107.7	1	Panel, Access	
20	300646	4	Screw, 1/4-20 x 3/4" Truss	
21	308090	4	Flat Washer, 1/4	
22	800279	4	Nut, 1/4-20 Speed	
23	821893	1	Trim, Push On	

&gt; Change from previous revision



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	844564	1	Hose, Tank to Filter	
2	836206	4	Clamp, Hose	
3	844583	1	Fitting, 90°	
4	844566	1	Fitting, Straight	
5	844628	1	Hose, Pump to Selector Valve	
6	844652	1	Fitting, 9/16-18 x 3/4-16 Straight	
7	844600	1	Hose, Selector Valve to Coupler	
8	844571	1	Fitting, 9/16-18 x 3/4-16 90°	
9	835101	2	Fitting, 3/8" NPT 90°	
10	840877	1	Sleeve, Nylon	
11	844584	1	Bushing, Flip Lock	
12	894702	1	Coupler Half, Dry Seal Male	
13	832414	2	Ring, Rataining	
14	894701	1	Coupler Half, Dry Seal Female	
15	452381	2	Screw, M6-1 x 40 mm Flange	
16	844973	2	Bushing	
17	450452	2	Nut, M6-1 Hex Flange	
18	844600	1	Hose, Coupler to Filter	
19	844627	4	Fitting, 3/4-16 Tee	
20	844630	1	Hose, Control Valve to Filter	
21	844590	1	Fitting, 3/4-16 x 1-1/16-12 Straight	
22	894691	1	Head, Filter	
23	885249	1	Filter Element	
24	523768	1	Fitting, 90°	
25	844565	1	Hose, Filter to Tank	
26	REF	1	Control Valve	See 35.1
27	REF	1	Selector Valve	See 35.1
28	888042	1	Pump, Hydraulic	
	306560	1	• Key, Woodruff #5	
	887017	1	• Seal Kit	
29	844937	1	Plate, Coupler Retainer	
30	320107	2	Tie, 7-1/2" Cable	Not Shown, Secures Nylon Sleeve

&gt; Change from previous revision

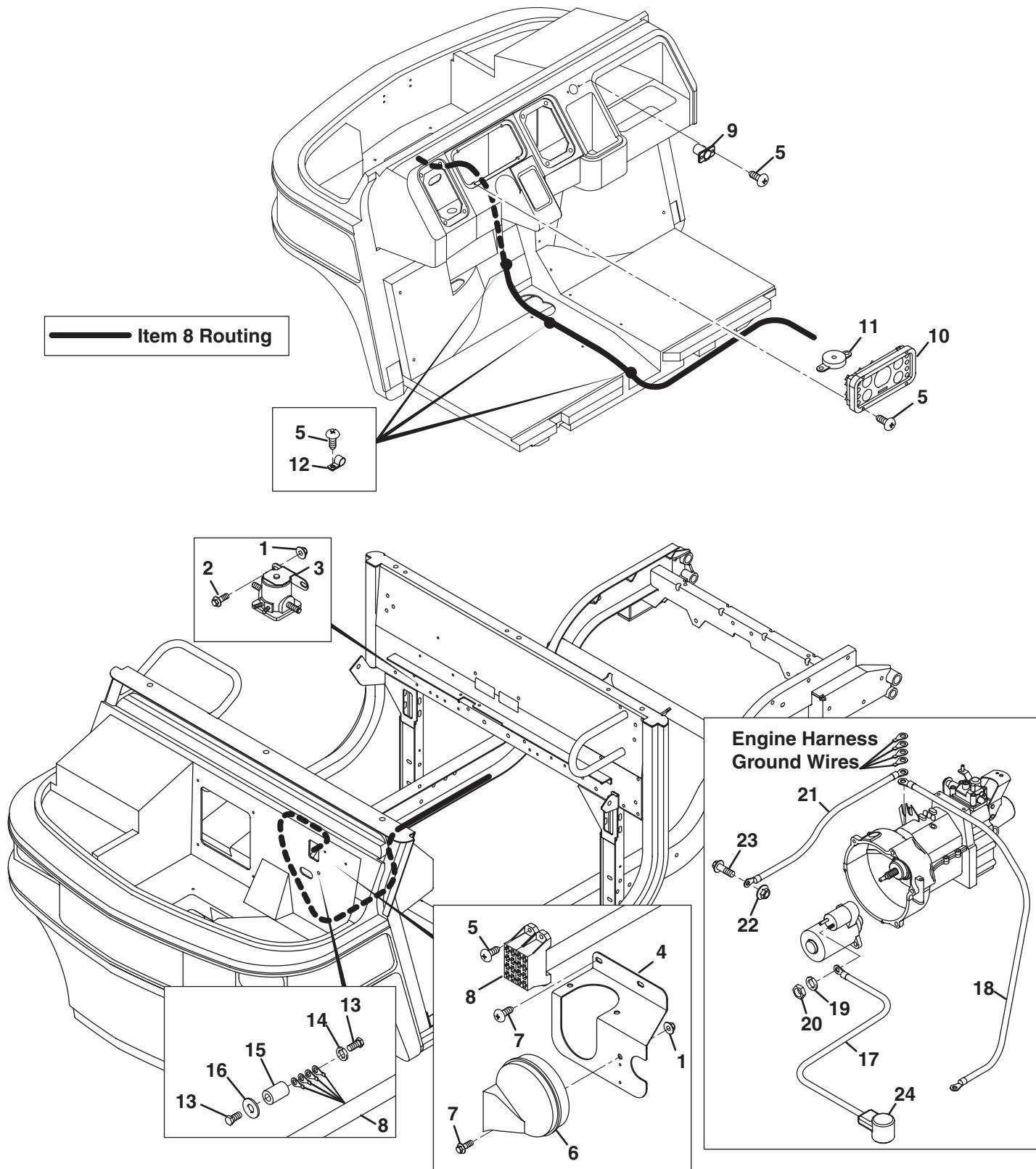
**36.1 Lift Cylinder Circuit**

Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	882993	1	Cylinder, Dump Box	
	883236	1	• Seal Kit	Texas Hydraulics
	884574	1	• Seal Kit	Columbus Hydraulics
	886001	1	• Seal Kit	DANA Hydraulics
2	830810	2	Pin, Clevis	
3	809265	4	Hair Pin	
4	821893	AR	Trim, Push On	
5	817320	2	Clamp, Hose	
6	452378	2	Screw, M6-1 x 20 mm Hex Flange	
7	450452	2	Nut, M6-1 Hex Flange	
8	826558	1	Fitting, 9/16-18 90°	
9	844019	1	Hose, Selector Valve to Control Valve	
10	841892	1	Hose, Control Valve to Coupler	Control Valve Port B
11	844584	1	Bushing, Flip Lock	
12	840877	1	Sleeve, Nylon	
13	832408	2	Coupler Half, Male	
14	832414	4	Ring, Retaining	
15	832409	2	Coupler Half, Female	
16	835101	2	Fitting, 3/8" NPT 90°	
17	832900	2	Hose, Lift Cylinder to Coupler	
18	823119	1	Fitting, 1/4" NPT	
19	840877	1	Sleeve, Nylon	
20	844598	1	Hose, Control Valve to Coupler	Control Vale Port A
21	REF	1	Control Valve	See 35.1
22	REF	1	Selector Valve	See 35.1
23	320107	4	Tie, 7-1/2" Cable	Not Shown, Secures Nylon Sleeve

&gt; Change from previous revision

## 37.1 Diesel Electrical Components

Serial No. 84043 All  
Serial No. 84044 All

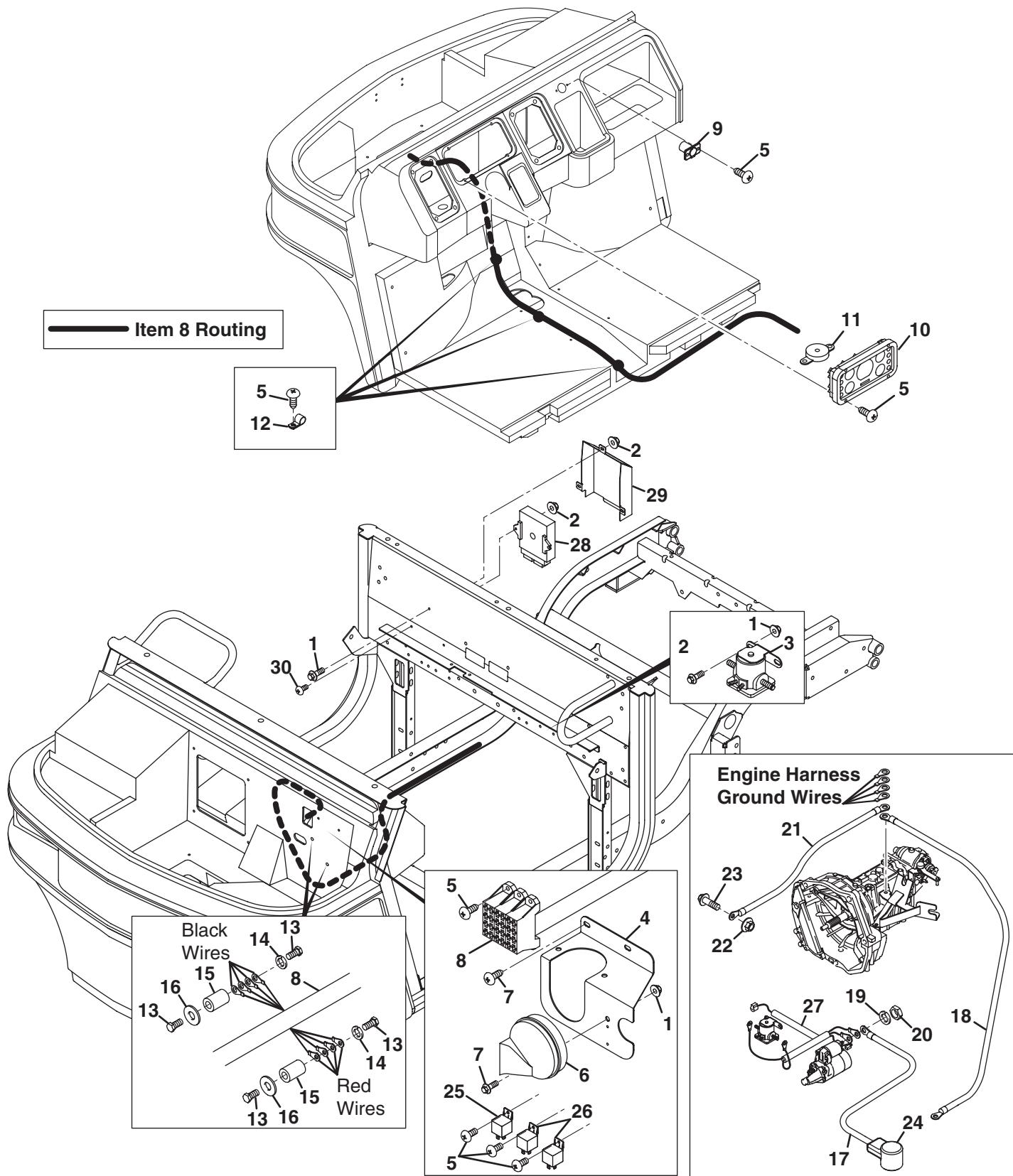


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	450452	3	Nut, M6-1 Hex Flange	
2	452378	2	Screw, M6-1 x 20 mm Hex Flange	
3	2701465	1	Solenoid, Starter	
	120052	2	• Lockwasher, #10	
	132520	2	• Nut, #10-32 Hex	
	306325	2	• Lockwasher, 5/16	
	306932	2	• Nut, 5/16-18 Hex	
4	844167	1	Bracket, Horn, Brake Fluid Reservoir	
5	800943	15	Screw, #10-16 x 3/4" Thread Cutting	
6	886425	1	Horn	
7	800934	3	Screw, M6-1 x 16 mm Hex Flange	
8	894266	1	Harness, Main	
9	843942	1	Socket, 12V Accessory Plug	
10	4116941	1	Panel, Instrument with Tachometer	
11	890000	1	Buzzer, High Temperature	Located inside front clip, behind dash panel
12	831225	3	Clamp, Wire Harness	
13	306419	2	Screw, 1/4-20 x 1/2" Hex Head	
14	306488	1	Lockwasher, 1/4 External Tooth	
15	828231	1	Insulator	
16	548175	1	Flat Washer, 1/4	
17	894596	1	Positive Battery Cable	
18	884513	1	Negative Battery Cable	Battery to Transmission
19	306325	1	Lockwasher, 5/16	
20	450324	1	Nut, M8-1.25 Hex	
21	892811	1	Cable, Ground	Transmission to Right Frame Rail
22	450453	1	Nut, M8-1.25 Hex Flange	
23	452388	1	Screw, M8-1.25 x 20 mm Flange	
24	841895	1	Cover, Positive Battery Terminal	

&gt; Change from previous revision

## 38.1 Gas Electrical Components

Serial No. 898627 All  
 Serial No. 898628 All  
 Serial No. 84054 All



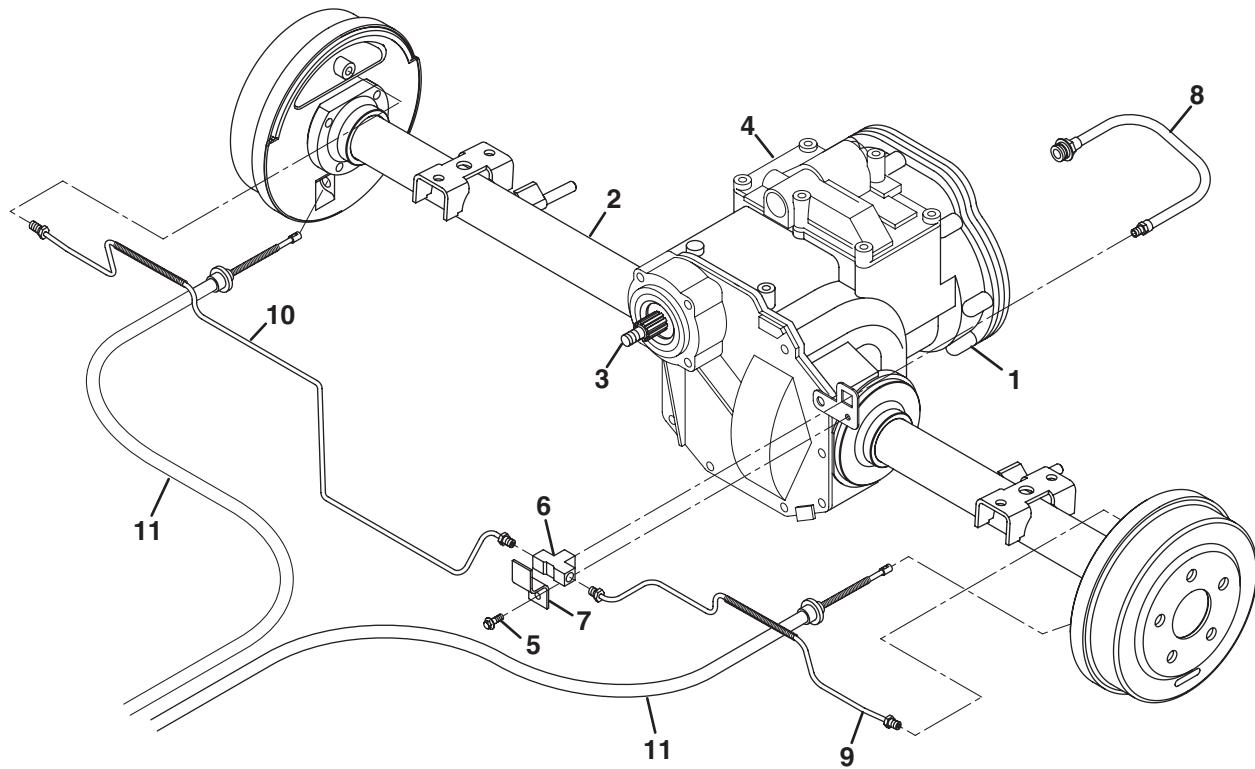
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	450452	8	Nut, M6-1 Hex Flange	
2	452378	5	Screw, M6-1 x 20 mm Hex Flange	
3	2701465	1	Solenoid, Starter	
	120052	2	• Lockwasher, #10	
	132520	2	• Nut, #10-32 Hex	
	306325	2	• Lockwasher, 5/16	
	306932	2	• Nut, 5/16-18 Hex	
4	844167	1	Bracket, Horn, Brake Fluid Reservoir	
5	800943	15	Screw, #10-16 x 3/4" Thread Cutting	
6	886425	1	Horn	
7	800934	3	Screw, M6-1 x 16 mm Hex Flange	
8	4115709	1	Harness, Main	See 49.1
9	843942	1	Socket, 12V Accessory Plug	
10	4116941	1	Panel, Instrument with Tachometer	
11	890000	1	Buzzer, High Temperature	Located inside front clip, behind dash panel
12	831225	3	Clamp, Wire Harness	
13	306419	2	Screw, 1/4-20 x 1/2" Hex Head	
14	306488	1	Lockwasher, 1/4 External Tooth	
15	828231	1	Insulator	
16	548175	1	Flat Washer, 1/4	
17	894596	1	Positive Battery Cable	Manual Transmission
17	2701502	1	Positive Battery Cable	Automatic Transmission
18	884513	1	Negative Battery Cable	Battery to Transmission
19	306325	1	Lockwasher, 5/16	
20	450324	1	Nut, M8-1.25 Hex	
21	892811	1	Cable, Ground	Transmission to Right Frame Rail
22	450453	1	Nut, M8-1.25 Hex Flange	
23	452388	1	Screw, M8-1.25 x 20 mm Flange	
24	841895	1	Cover, Positive Battery Terminal	
25	2700867	1	Relay, EFI 12 V 70A SP	
26	843167	2	Relay, 12V 15A DPST	
27	4116017	1	Harness, Generator	
28	4140994	1	Controller, EFI Engine	Manual Transmission
28	4140995	1	Controller, EFI Engine	Automatic Transmission
29	2700993-G01	1	Cover, Engine Controller	
30	450544	2	Screw, M61 x 30 mm Pan Head	
31	4116018	1	Harness, Temp Sender	Not Shown

&gt; Change from previous revision

## 39.1 Differential Assembly

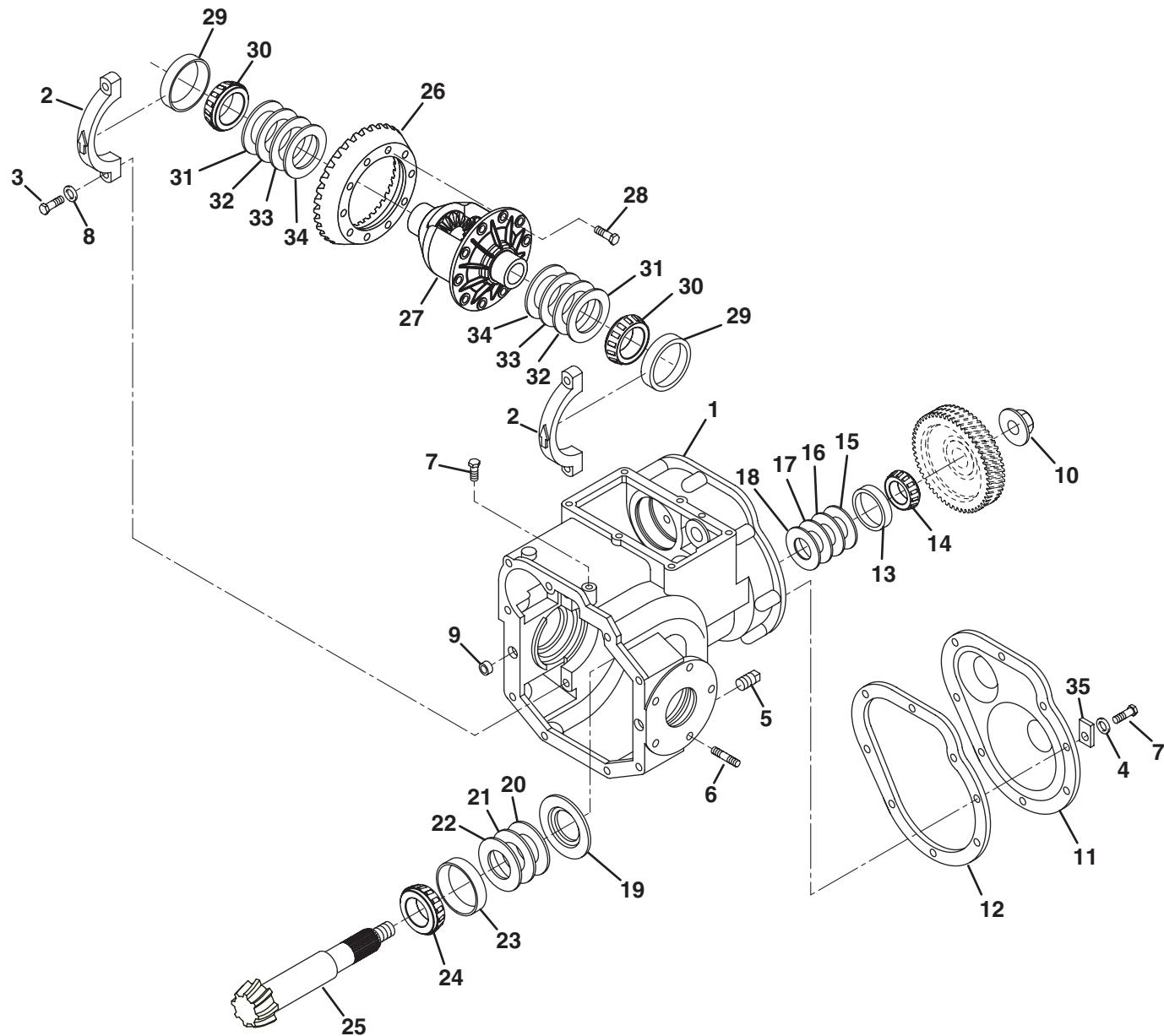
Serial No. All

Part Number 894509 (14.21:1 Differential)  
Part Number 893591 (11.16:1 Differential)



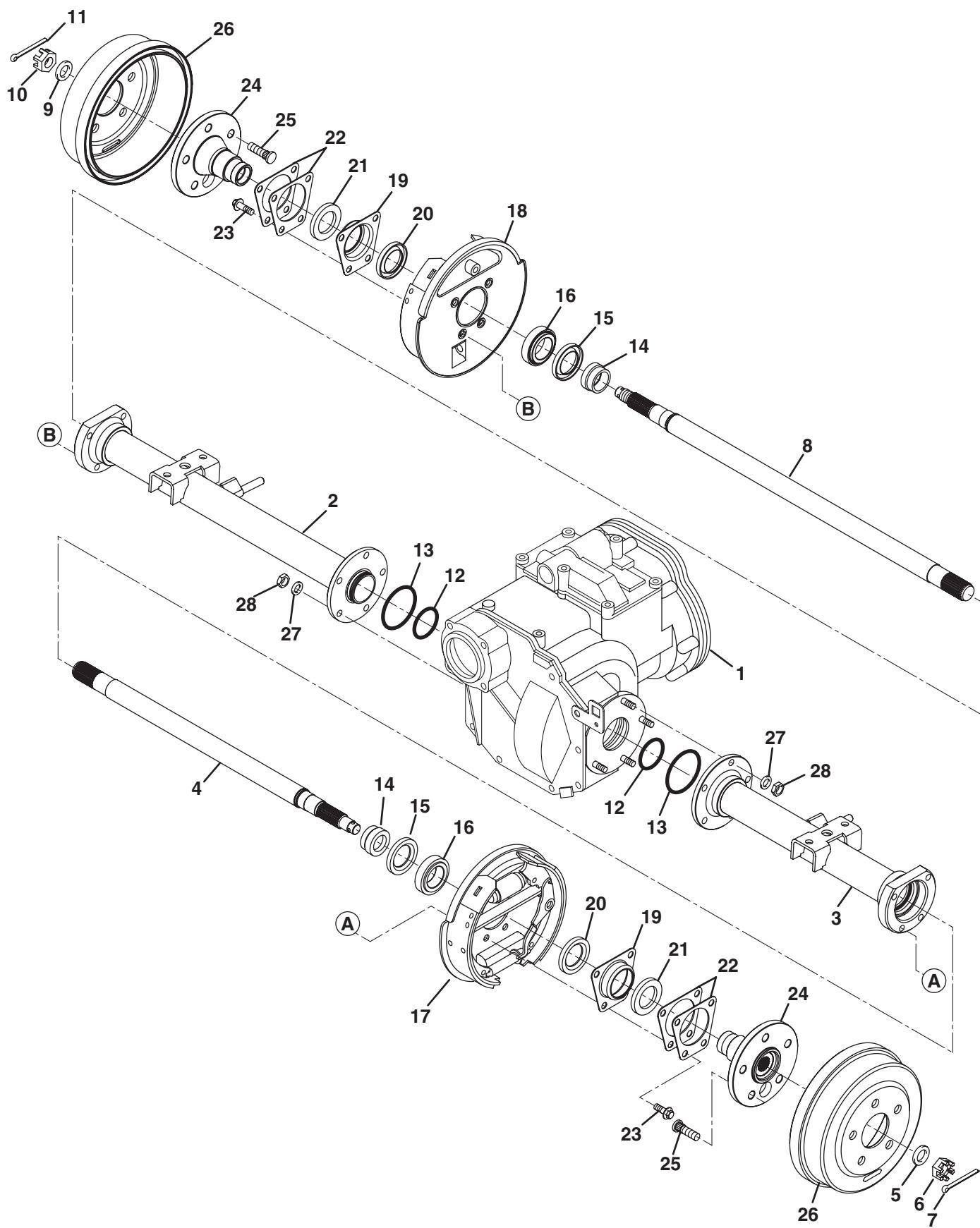
Item	Part No.	Qty.	Description	Serial Numbers/Notes
	894509	1	Differential Assembly	<b>14.21:1 Differential</b>
	893491	1	Differential Assembly	<b>11.16:1 Differential</b>
1	891829	1	• Differential Housing	See 40.1
2	N/S	1	• Axle Tubes and Shafts	See 41.1
3	N/S	1	• Input, Main and Jack Shaft	See 43.1
4	N/S	1	• Front and Shift Cover	See 42.1
5	112050	1	• Screw, 1/4-20 x 5/8" Self Tap	
6	841842	1	• Fitting, Hydraulic Brake Tee	
7	832584	1	• Clamp, Tee Fitting	
8	841844	1	• Hose, Brake	
9	841838	1	• Tube, Left Side Brake	
10	841837	1	• Tube, Right Side Brake	
11	893583	2	• Cable, Parking Brake	

&gt; Change from previous revision



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	891829	1	Differential Housing	
2	N/S	2	• Bearing Caps	
3	306829	4	• Screw, 7/16-14 x 2" Hex Head	
4	103867	8	• Flat Washer, 5/16	
5	111074	1	• Plug, Drain	
6	111758	10	• Stud, 3/8-16 & 3/8-24 x 1-23/32	
7	306322	9	• Screw, 5/16-18 x 7/8" Hex Head	
8	306982	4	• Flat Washer, 7/16	
9	517226	2	• Bushing	
10	800718	1	• Nut, 3/4-16 Hex Lock	
11	836443	1	• Rear Cover	
12	2702146	1	• Spacer, 14.21:1 Differential	Used on 14.21:1 Differential Only
13	814476	1	• Cup, Bearing (2-17/32" O.D.)	
14	836680	1	• Cone, Bearing (1-1/8" I.D.)	
15	836688	AR	• Shim, .003 Thick	
16	836689	AR	• Shim, .005 Thick	Add or remove shims as required to adjust gear backlash
17	836690	AR	• Shim, .010 Thick	
18	836691	AR	• Shim, .030 Thick	
19	836692	1	• Baffle, Oil	
20	836685	AR	• Shim, .003 Thick	
21	836686	AR	• Shim, .005 Thick	Add or remove shims as required to adjust gear backlash
22	836687	AR	• Shim, .010 Thick	
23	836677	1	• Cup, Bearing (2.84" O.D.)	
24	836678	1	• Cone Bearing (1-3/8" I.D.)	
	889870	1	• Gear Set	
25	N/S	1	• Pinion Gear and Shaft	
26	N/S	1	• Ring Gear	
27	N/S	1	• Differential Carrier	
28	800717	10	• Screw, 3/8-24 x 13/16 Hex Head	
29	836675	2	• Cup, Bearing (2.89" O.D.)	
30	836676	2	• Cone, Bearing, (1-5/8" I.D.)	
31	836681	AR	• Shim, .003 Thick	
32	836682	AR	• Shim, .005 Thick	Add or remove shims as required to adjust gear backlash
33	836693	AR	• Shim, .010 Thick	
34	836694	AR	• Shim, .030 Thick	
35	839948	1	Tag, 14.21:1 Ratio	

&gt; Change from previous revision



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	894509	1	Differential Assembly	14.21:1 Differential
1	893491	1	Differential Assembly	11.16:1 Differential
2	2702535.7	1	• Tube, Right Side Axle	
3	2702534.7	1	• Tube, Left Side Axle	
4	2700530	1	• Left Side Axle Assembly	
	2700514	1	• • Shaft, Left Side Axle	
5	845356	1	• • Washer	
6	800743	1	• • Nut, 3/4-16 Slotted Hex	
7	304636	1	• • Cotter Pin, 1/8 x 1-1/8"	
8	2700531	1	• Right Side Axle Assembly	
	2700515	1	• • Shaft, Right Side Axle	
9	845356	1	• • Washer	
10	800743	1	• • Nut, 3/4-16 Slotted Hex	
11	304636	1	• • Cotter Pin, 1/8 x 1-1/8"	
12	836694	2	• Seal, 1-3/4" I.D. O-Ring	
13	2703481	2	• Seal, 2" I.D. O-Ring	
14	836426	2	• Collar, Axle Bearing	
15	838539	2	• Seal, Oil	
16	836695	2	• Bearing, Tapered Roller	
17	893581	1	• Left Side Brake Assembly	Includes Parking Brake Lever
	894930	1	• • Kit, Brake Cylinder	Replacement of Cylinder
	894931	1	• • Kit, Brake Cylinder Repair	Repair of Cylinder
	894932	1	• • Kit, Brake Shoe	Includes Left and Right sides
	894933	1	• • Kit, Left Side Spring	
	894935	1	• • Kit, Left Side Adjuster Repair	
18	893582	1	• Right Side Brake Assembly	Includes Parking Brake Lever
	894930	1	• • Kit, Brake Cylinder	Replacement of Cylinder
	894931	1	• • Kit, Brake Cylinder Repair	Repair of Cylinder
	894932	1	• • Kit, Brake Shoe	Includes Left and Right sides
	894934	1	• • Kit, Right Side Spring	
	894936	1	• • Kit, Right Side Adjuster Repair	
19	893519	2	• Retainer, Complete	
20	838539	1	• • Seal, Oil	
21	2703309	2	• Washer, Hardened	
22	844813	4	• Ring, Backing	
23	800944	8	• Screw, M10-1.5 x 25 mm	
24	2701408	2	• Hub, Rear Wheel	
25	800908	5	• • Bolt, Wheel	
26	841430	2	• Drum, Brake	
27	306405	10	• Washer, 3/8	
28	805387	10	• Locknut, 3/8-24 Special	

&gt; Change from previous revision

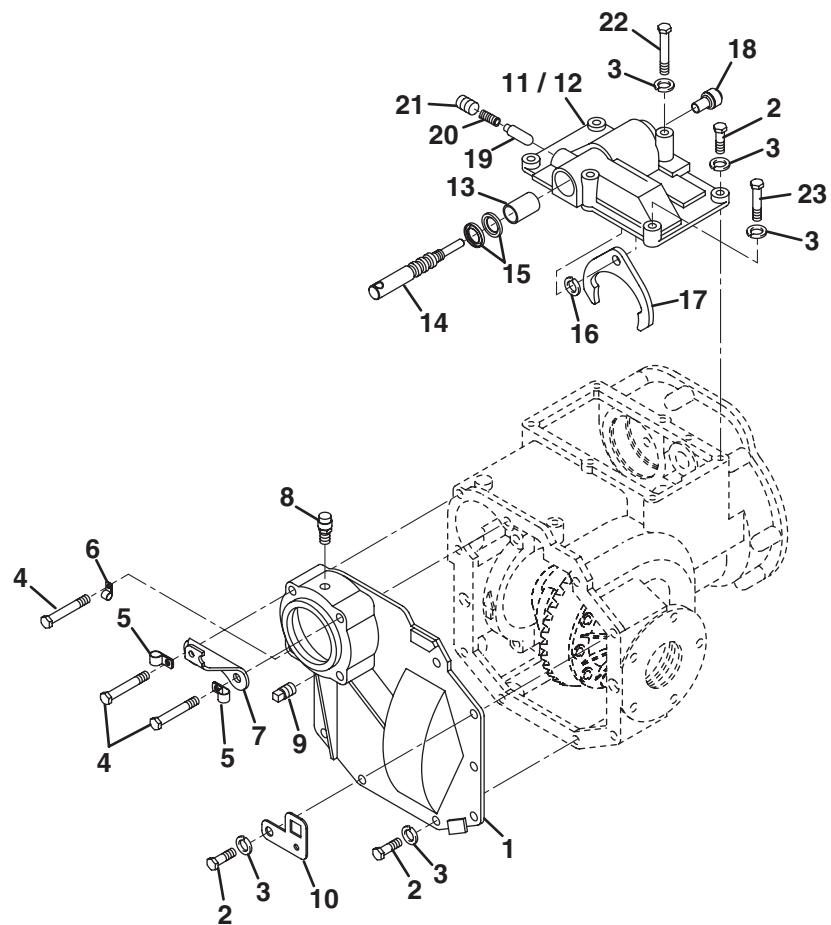
# TURF TRUCKSTER

## 42.1 Front and Shifter Cover

Serial No. All

14.21:1 Differential (894509)

11.16:1 Differential (893491)



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	836431	1	Cover, Front	
2	306322	12	Screw, 5/16-18 x 7/8" Hex Head	
3	103867	14	Flat Washer, 5/16	
4	307776	3	Screw, 3/8-16 x 2-3/4" Hex Head	
5	810437	2	Clamp, 1/2" P	14.21:1 Differential Only
6	810435	1	Clamp	Right Side Brake Tube
7	836841	1	Bracket, Shift Cable	
8	836852	1	Breather	
9	111074	1	Plug, Fill	
10	836959	1	Bracket, Brake Tee Mounting	
11	889780	1	Shift Cover Assembly	
12	889925	1	• Cover	
13	N/S	1	• • Bushing	
14	836658	1	• Shaft, Shift	
15	831099	2	• Seal, Oil	
16	548937	1	• Lockwasher, 7/16	
17	836657	1	• Fork, Shift	
18	836662	1	• Bushing, Guide	
19	807366	1	• Button, Positioning	
20	2700493	1	• Spring	
21	548204	1	• Set Screw, 3/8-16 x 3/8"	
22	306423	2	Screw, 5/16-18 x 1-3/4" Hex Head	
23	306435	1	Screw, 5/16-18 x 1-1/4" Hex Head	

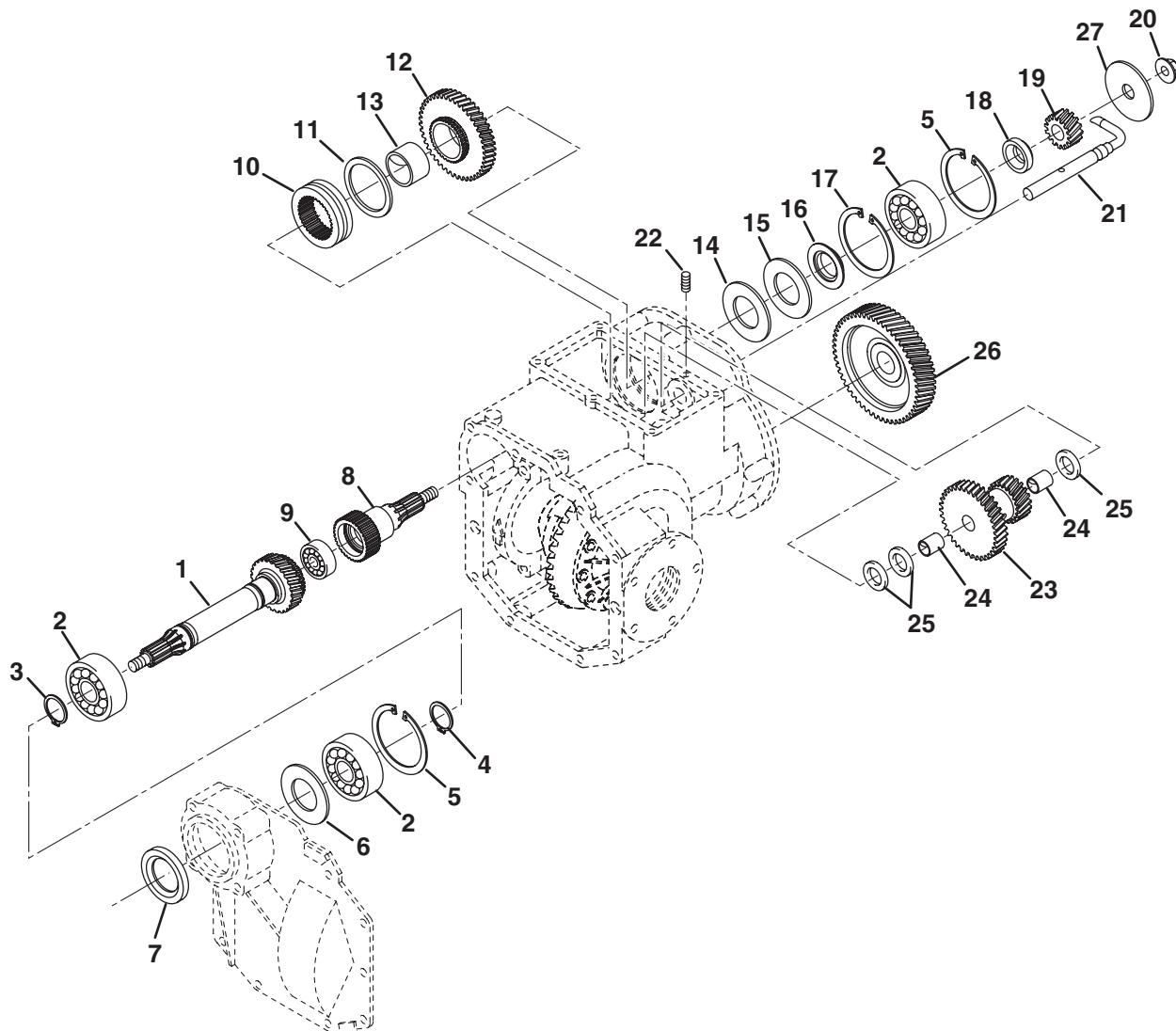
&gt; Change from previous revision

## 43.1 Input, Main and Jack Shafts

Serial No. All

14.21:1 Differential (894509)

11.16:1 Differential (893491)



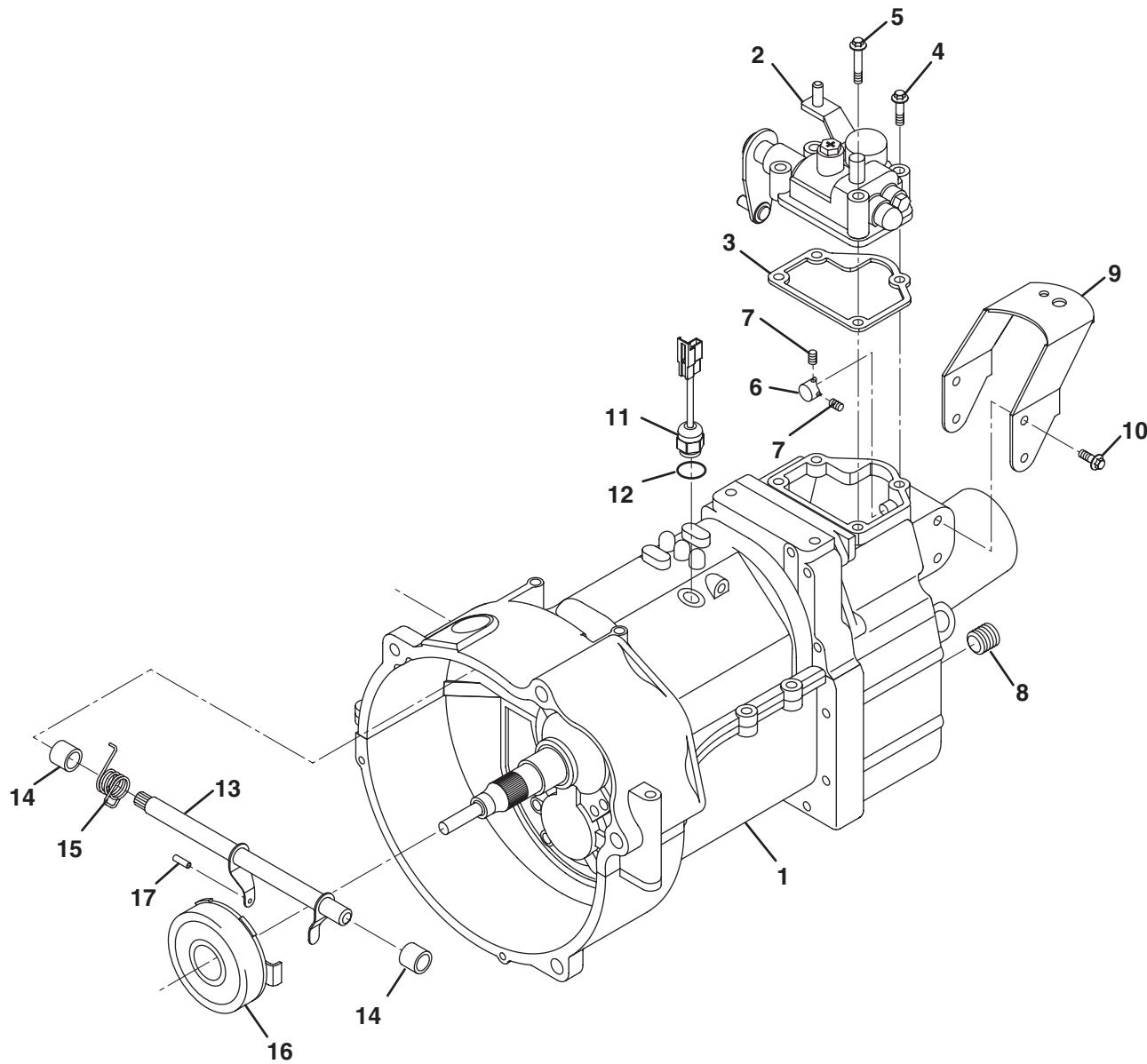
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	836421	1	Shaft, Input	
2	836693	3	Bearing, Ball	
3	809254	1	Ring, External Retaining	
4	800695	1	Ring, External Retaining	
5	800737	2	Ring, Internal Retaining	
6	837020	1	Baffle, Vent	
7	812325	1	Seal, Oil	
8	836422	1	Shaft, Main	
9	812009	1	Bearing, Ball	
10	836429	1	Collar, Engaging	
11	844956	1	Bearing, Bronze Thrust	
12	894886	1	Gear, Driven	
13	812006	1	• Bushing	
14	811993	1	Bearing, Thrust	
15	844951	AR	Shim, .003 Thick	
15	844952	AR	Shim, .005 Thick	
15	844953	AR	Shim, .010 Thick	
16	845034	1	Collar, Thrust	
17	548952	1	Lockring	
18	836420	1	Spacer, Pinion	
19	842359	1	Pinion, 15 Tooth	<b>14.21:1 Differential (894509)</b>
19	836440	1	Pinion, 18 Tooth	<b>11.16:1 Differential (893491)</b>
20	800559	1	Nut, 1/2-20 Crown Lock	
21	891089	1	Jackshaft	
22	548201	1	Set Screw, 5/16-18 x 5/16	
23	894519	1	Cluster Gear	
24	844087	2	• Bushing	
25	811992	3	Shim, CLuster Gear	
26	842360	1	Gear, 52 Tooth	<b>14.21:1 Differential (894509)</b>
26	836441	1	Gear, 49 Tooth	<b>11.16:1 Differential (893491)</b>
27	837198	1	Baffle, Oil Scoop	

&gt; Change from previous revision

## 44.1 Transmission Clutch Release-Shift Selector

Diesel Engine Only

Serial No. 84043 - All  
Serial No. 84044 - All



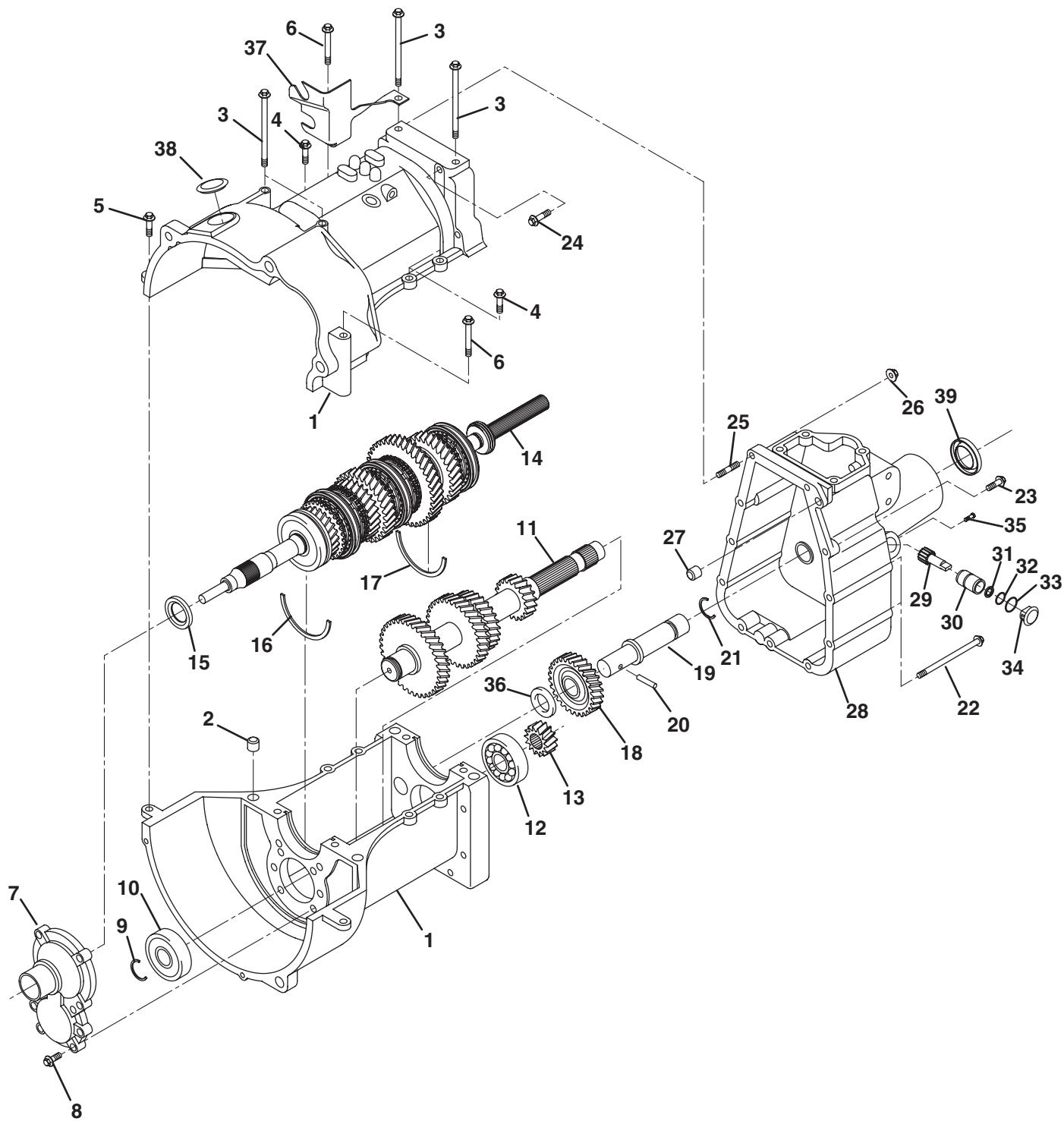
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	REF	1	Transmission Case	See 45.1
2	REF	1	Shift Assembly	See 47.1
3	845223	1	Gasket, Shift Case	
4	2702659	3	Screw, M8-1.25 x 40 mm	
5	01550-08553	1	Screw, M8-1.25 x 55 mm	
6	844228	1	Stop, 5th Gear Lockout	
7	548222	2	Set Screw, #8-32	
8	2702684	1	Plug, Drain	
9	11741-85200	1	Support, Transmission	
10	2702475	4	Screw	
11	37610-80023	1	Switch, Backup Light	
12	09280-11002	1	• O-Ring	
13	23260-85203	1	Shaft, Clutch Release	
14	09300-14017	2	Bushing, Clutch Release	
15	09448-20007	1	Spring, Clutch Release	
16	23265-85200	1	Bearing, Clutch Release	
17	09205-03019	1	Roll Pin	

&gt; Change from previous revision

## 45.1 Transmission Case

Diesel Engine Only

Serial No. 84043 - All  
Serial No. 84044 - All

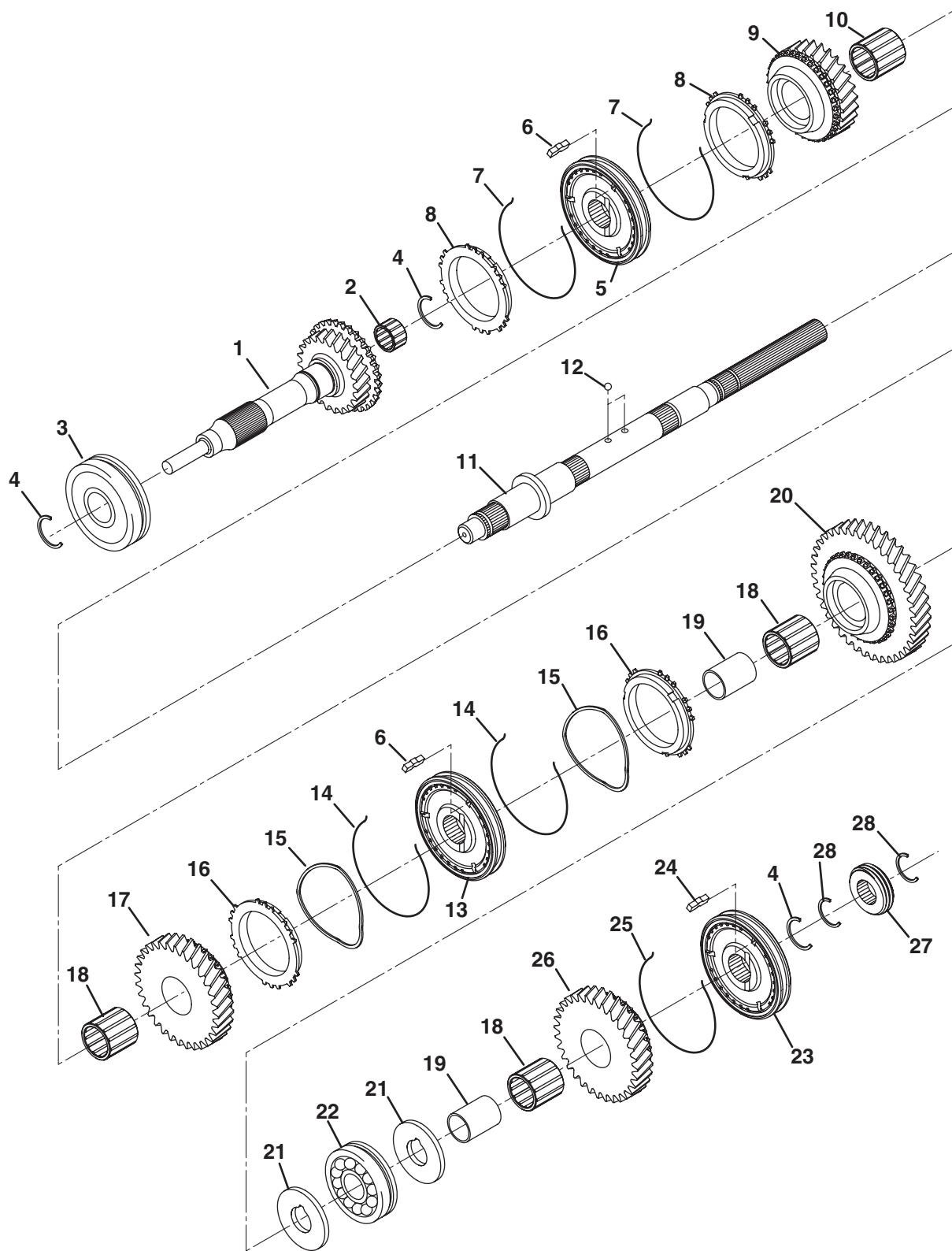


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	24700-85200	1	Case, Transmission	
2	2702690	2	• Pin, Alignment	
3	09103-08131	4	• Screw, M8-1.25 x 120 mm Flange	
4	2702470	3	• Screw, M8-1.25 x 30 mm Flange	
5	2702659	1	• Screw, M8-1.25 x 40 mm Flange	
6	2702471	2	• Screw, M8-1.25 Flange	
7	24741-83001	1	Retainer, Input Shaft Bearing	
8	09103-08152	8	Screw, M8-1.25 x 25 mm Flange	
9	09380-28007	1	Cir CLip	
10	09262-28019	1	Bearing, Front	
11	24131-83002	1	Counter Shaft	
12	09262-28020	1	Bearing, Center	
13	24671-83000	1	Gear, Countershaft Reverse	
14	REF	1	Input and Main Shaft	See 46.1
15	09283-25088	1	Seal, Oil	
16	09390-68002	1	C-Ring	
17	09390-62010	1	C-Ring	
18	24560-83001	1	Gear, Reverse Idle	
19	24551-83010	1	Shaft, Reverse Idle Gear	
20	09261-06003	1	Pin	
21	2702586	1	Cir Clip	
22	09103-08132	3	Screw, M8-1.25 x 100 mm Flange	
23	01550-08353	5	Screw, M8-1.25 Flange	
24	2702659	4	Screw, M8-1.25 x 40 mm Flange	
25	01421-08303	1	Stud, M8-1.25	
26	2703002	1	Nut, M8-1.25 Hex Flange	
27	2702690	2	Pin, Alignment	
28	24770-85252	1	Case, Extension	
29	26131-85201	1	Gear, Speedometer Driven	
30	29431-85400	1	Case, Seepometer Gear	
31	09282-08001	1	Seal, Oil	
32	09280-19001	1	O-Ring	
33	09280-21014	1	O-Ring	
34	843754	1	Plug	
35	09128-06032	1	Bolt, Retaining	
36	09166-16014	1	Washer	
37	28391-85202	1	Bracket, Shift Cables	
38	2702662	1	Plug, Inspection Timing	
39	24780-83010	1	Seal, Extension Case	

&gt; Change from previous revision

## 46.1 Input and Main Shaft

Serial No. 84043 - All  
Serial No. 84044 - All

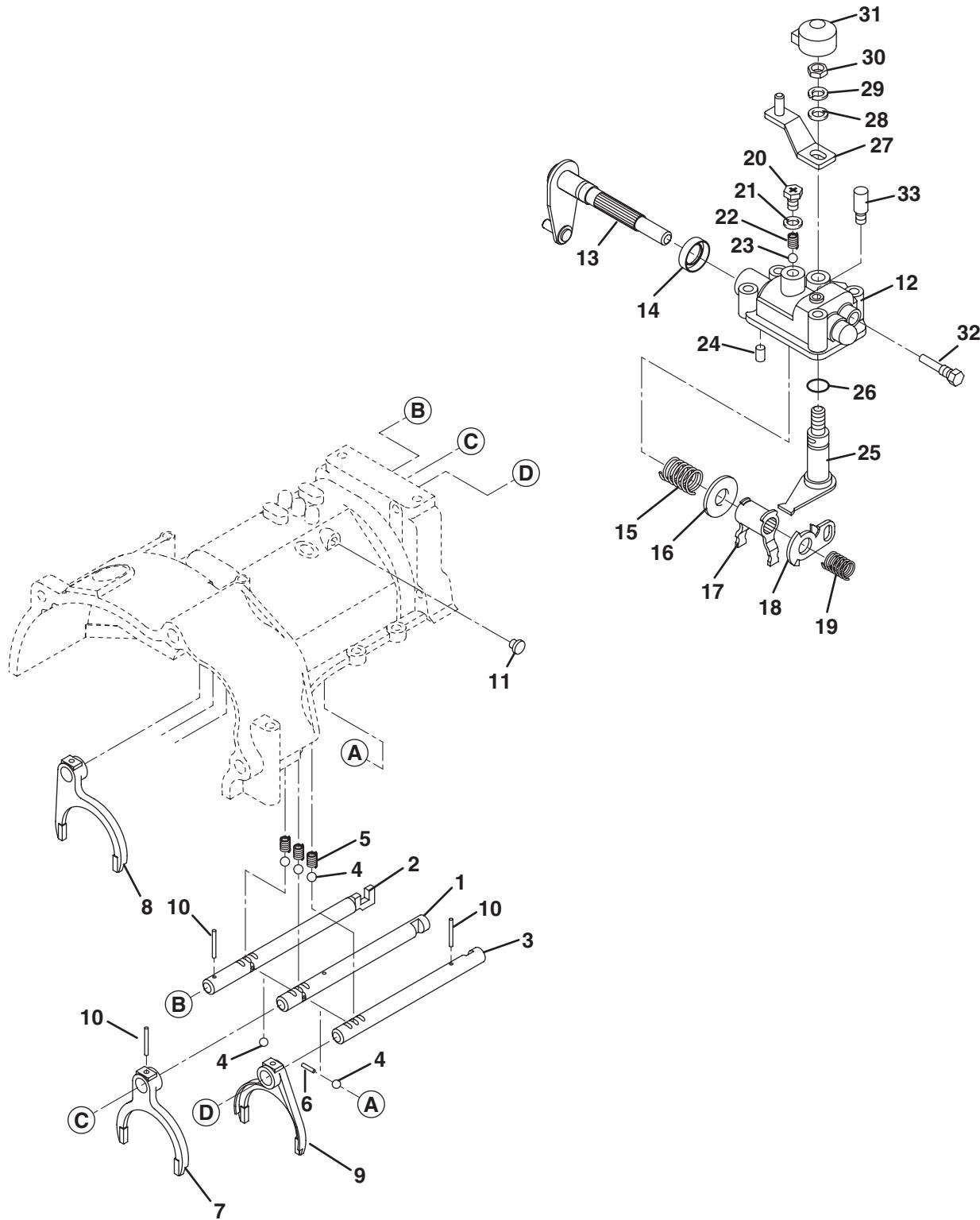


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	24110-80410	1	Shaft, Input	
2	2702561	1	Bearing, Needle	
3	4141037	1	Bearing, Input Shaft Ball	
4	09380-28007	3	Cir Clip	
5	24410-83000	1	High Speed Syncroniser	Includes Hub and Sleeve
6	24471-60A00	6	Key, Syncronizer	
7	24442-81A20	2	Spring, High Speed Syncronizer	
8	24432-83001	3	Ring, Syncronizer	
9	24230-83001	1	Gear, Main Shaft 3rd	3rd Gear
10	09263-30031	1	Bearing, Needle	
11	24121-85252	1	Shaft, Main	
12	06111-06003	2	Ball	
13	24400-83000	1	Low Speed Syncronizer	Includes Hub and Sleeve
14	24436-83000	2	Spring, Low Speed Syncronizer	
15	24441-85F41	2	Spring, Low Speed	
16	24431-83001	2	Ring, Low Speed Syncronizer	
17	24220-60A01	1	Gear, Main Shaft 2nd	2nd Gear
18	09263-35015	3	Bearing, Needle	
19	09300-30003	2	Bushing	
20	24211-83011	1	Gear, Main Shaft Low	1st Gear
21	09166-30007	2	Washer	
22	09262-30086	1	Bearing, Ball	
23	24420-83000	1	Syncronizer, Reverse Drive	Includes Hub and Sleeve
24	24473-70D10	3	Key, Syncronizer	
25	2703581	1	Spring, Reverse Syncronizer	
26	24681-83000	1	Gear, Main Shaft Reverse	Reverse Gear
27	26121-85202	1	Gear, Speedometer Drive	
28	2702559	2	Cir Clip	

&gt; Change from previous revision

## 47.1 Gear Shift Fork Linkage

Serial No. 84043 - All  
Serial No. 84044 - All

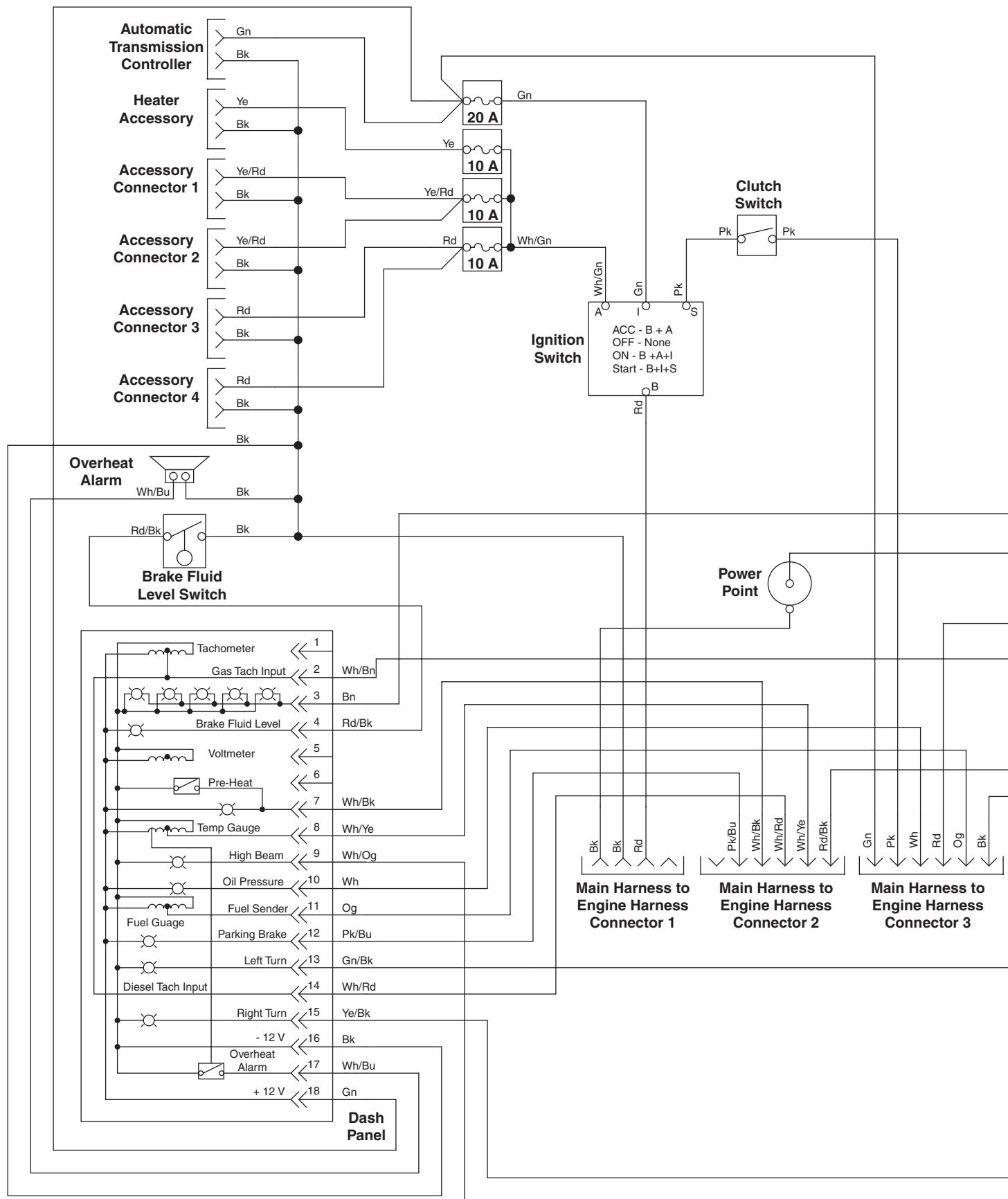


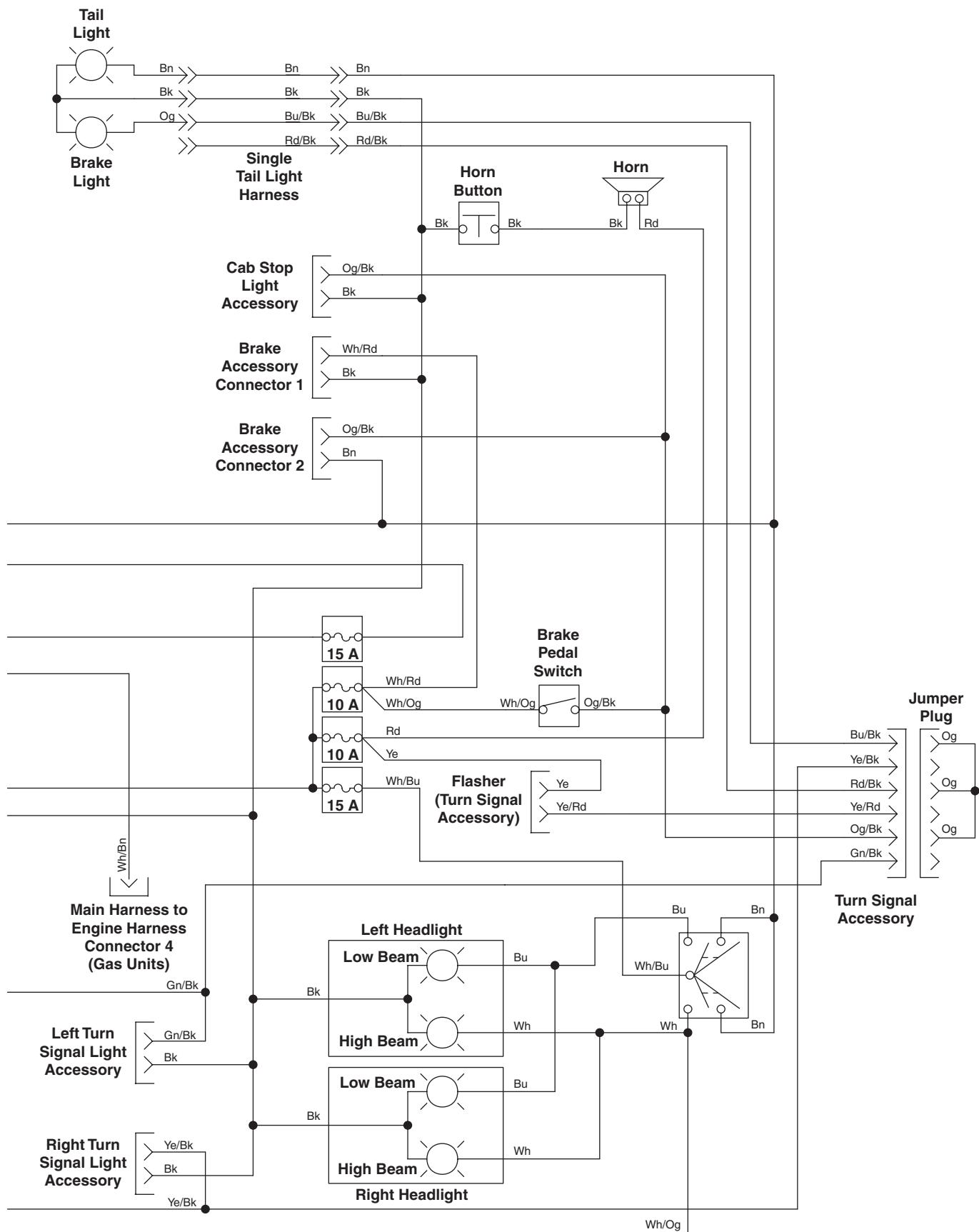
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	25411-85201	1	Shaft, Low Speed Fork	1st and 2nd Gear
2	25420-85201	1	Shaft, High Speed Fork	3rd and 4th Gear
3	25451-85261	1	Shaft, Reverse Fork	Reverse
4	06111-12004	5	Ball	
5	25415-83000	3	Spring, Detent	
6	09261-03017	1	Roller	
7	25211-85201	1	Fork, Low Gear Shift	1st and 2nd Gear
8	25221-85202	1	Fork, High Gear Shift	3rd and 4th Gear
9	25221-83002	1	Fork, Reverse Gear Shift	Reverse
10	09205-05012	3	Pin, 4 x 25 mm Spring	
11	09250-10006	1	Plug, Locating	
12	25121-85051	1	Case, Gear Shift Lever	
13	25520-85203	1	Shaft, Gear Shift Lever	
14	09284-17004	1	Seal, Oil	
15	25576-70D00	1	Spring	
16	09160-17035	1	Washer, 17 x 32 x 1.2 mm	
17	25541-85201	1	Lever, Gear Select	
18	25545-85055	1	Dog, Reverse Shift Limit	
19	25546-60C01	1	Spring	
20	09128-10002	1	Bolt, M10 x 9 mm Retaining	
21	09168-10007	1	Gasket	
22	25547-70D00	1	Spring	
23	09135-08005	1	Ball	
24	2701953	1	Pin	
25	25530-79501	1	Shaft, Gear Select	
26	09286-09001	1	Seal, Oil	
27	25535-85412	1	Arm, Gear Select	
28	09162-08008	1	Washer	
29	2702883	1	Washer	
30	2702494	1	Nut, M8-1.25 Hex	
31	25536-84200	1	Boot, Gear Select	
32	09135-08005	1	Bolt, Retaining	
33	24821-09001	1	Plug, Breather	

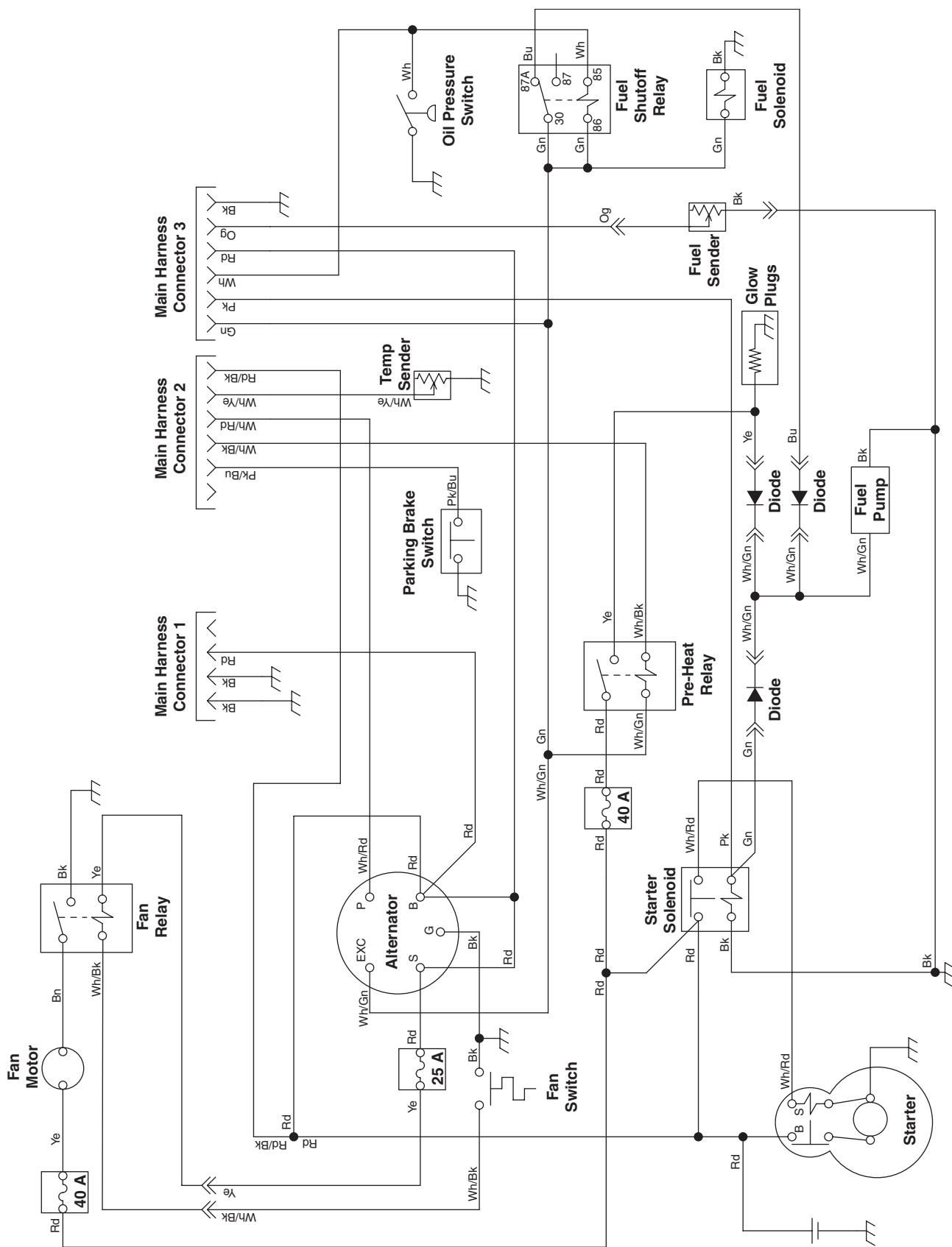
&gt; Change from previous revision

## 48.1 Diesel Engine Electrical Schematic

Serial No. 84043 All  
Serial No. 84044 All





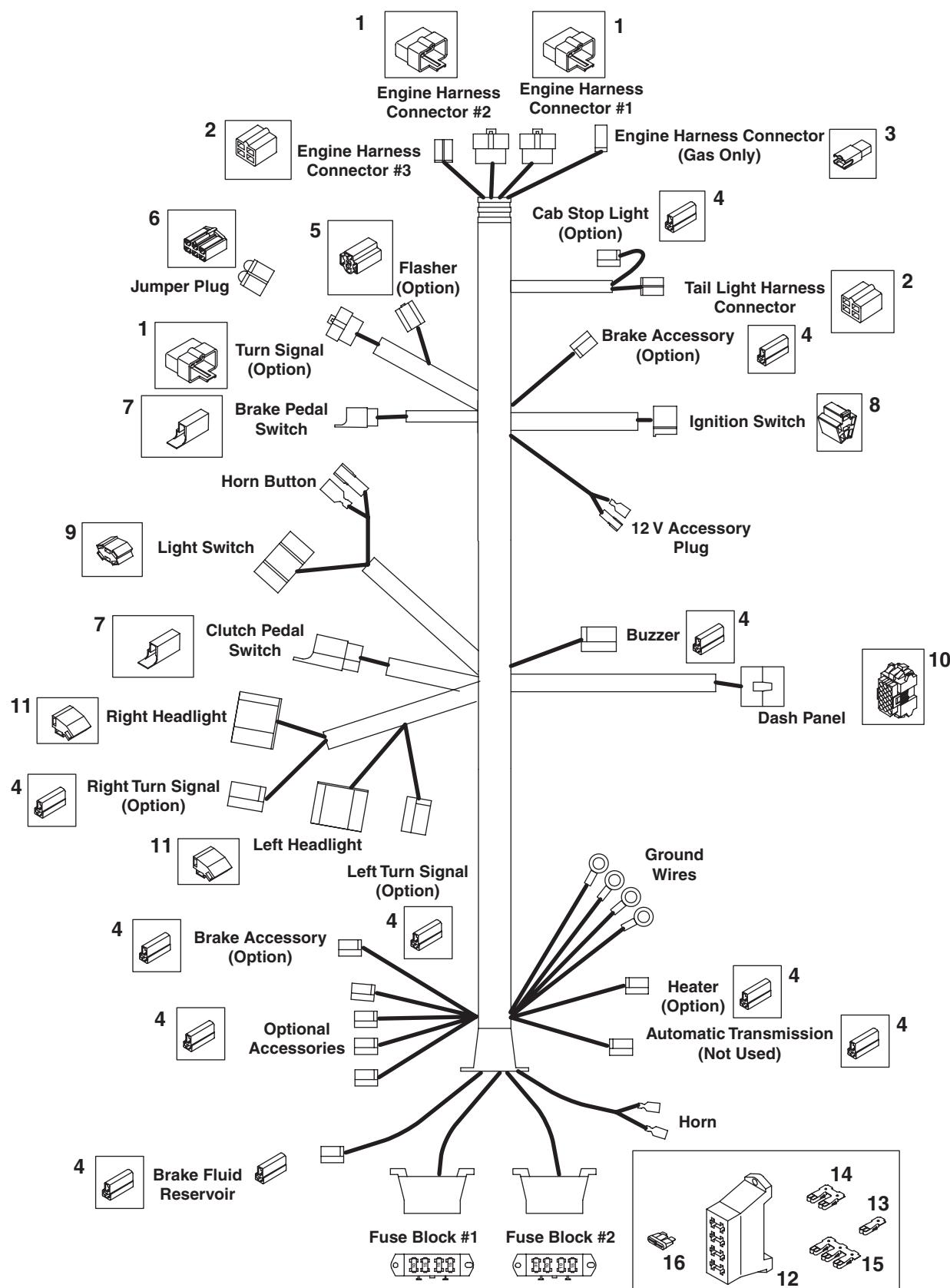




## 49.1 Diesel Engine Main Harness

Part Number 894266

Serial No. All



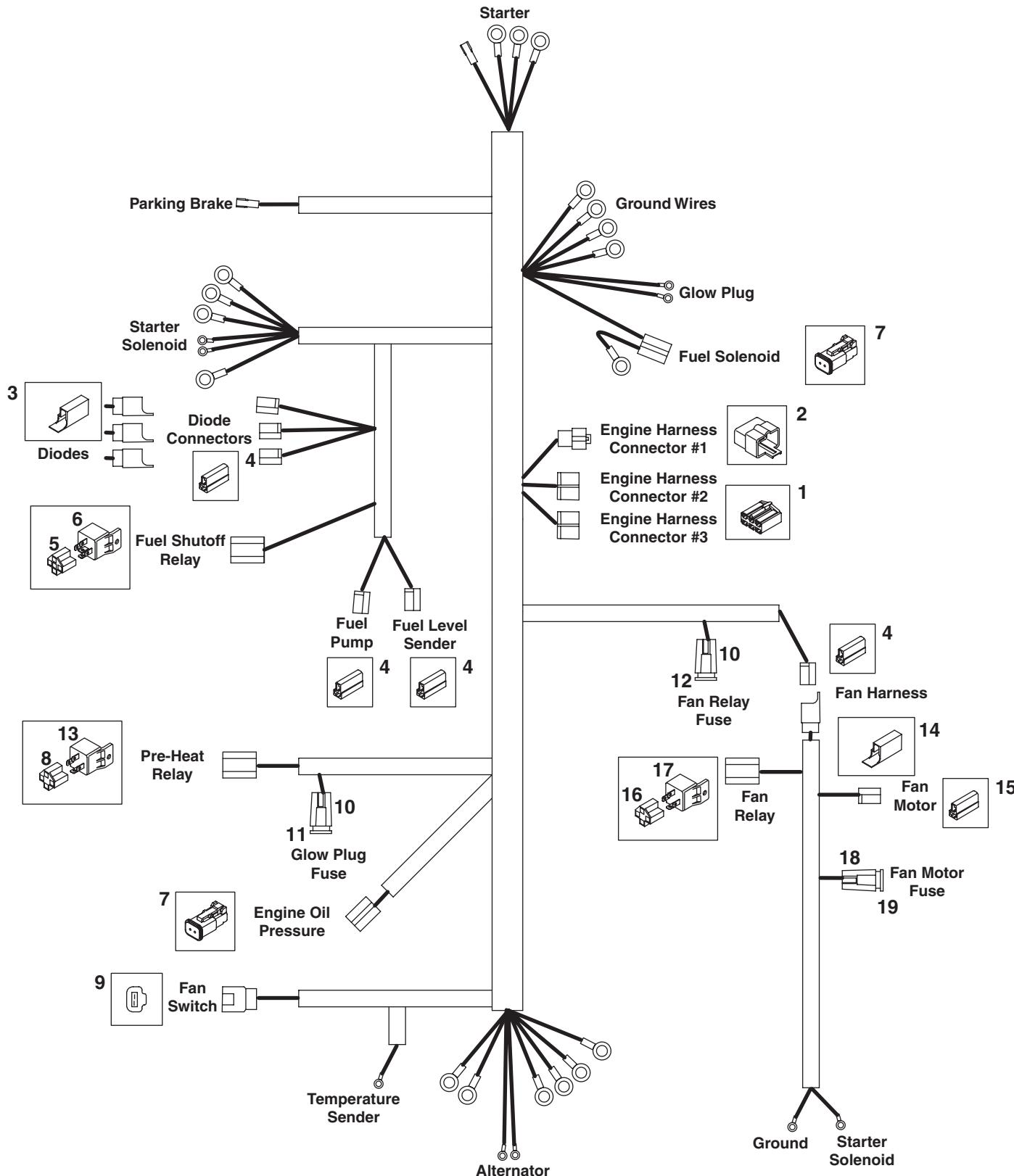
Item	Part No.	Qty.	Description	Serial Number / Notes
1	825973	3	Connecter, Six Male Terminal	
	825886	AR	Terminal, 1/4" Male 14-16 Gauge	Single Wire
	825961	AR	Terminal, 1/4" Male 10 Gauge	Two Wire
2	829630	2	Connector, Four Female Terminal	
	825748	AR	Terminal, 1/4" Female 14-16 Gauge	Single Wire
	825878	AR	Terminal, 1/4" Female 10 Gauge	Two Wire
3	826726	1	Connector, One Female Terminal	
	825886	AR	Terminal, 1/4" Male 14-16 Gauge	
4	826005	13	Connector, Two Female Terminal	
	825748	AR	Terminal, 1/4" Female 14-16 Gauge	Single Wire
	825878	AR	Terminal, 1/4" Female 10 Gauge	Two Wire
5	825894	1	Connector, Flasher	
	825899	AR	Terminal, 5/16" Female 14-16 Gauge	
6	825877	1	Connector, Six Female Terminal	
	825748	AR	Terminal, 1/4" Female 14-16 Gauge	Single Wire
	825878	AR	Terminal, 1/4" Female 10 Gauge	Two Wire
7	826006	2	Connector, Two Male Terminal	
	825886	AR	Terminal, 1/4" Male 14-16 Gauge	
8	837296	1	Connector, Ignition Switch	
	825748	AR	Terminal, 1/4" Female 14-16 Gauge	Single Wire
	825878	AR	Terminal, 1/4" Female 10 Gauge	Two Wire
9	843598	1	Connector, Rocker Switch	
	825748	AR	Terminal, 1/4" Female 14-16 Gauge	Single Wire
	825878	AR	Terminal, 1/4" Female 10 Gauge	Two Wire
10	843550	1	Connector, Eighteen Terminal	
	843551	AR	Terminal	
11	837301	2	Connector, Headlight	
	825899	AR	Terminal, 5/16" Female 14-16 Gauge	One Wire
	828629	AR	Terminal, 5/16" Female 14-16 Gauge	Two Wire
12	825996	1	Fuse Holder	
13	825997	4	Fuse Clip, 1 Term., 14-16 Gauge	
14	825998	6	Fuse Clip, 1 Term, 10 Gauge	
15	825999	2	Fuse Clip, 3 Term. 14-16 Gauge	
16	836892	5	Fuse, 10 Amp	
16	842983	2	Fuse, 15 Amp	
16	826000	1	Fuse, 20 Amp	

&gt; Change from previous revision

## 50.1 Diesel Engine and Fan Harness

Part Numbers 601572 & 601586

Serial No. All



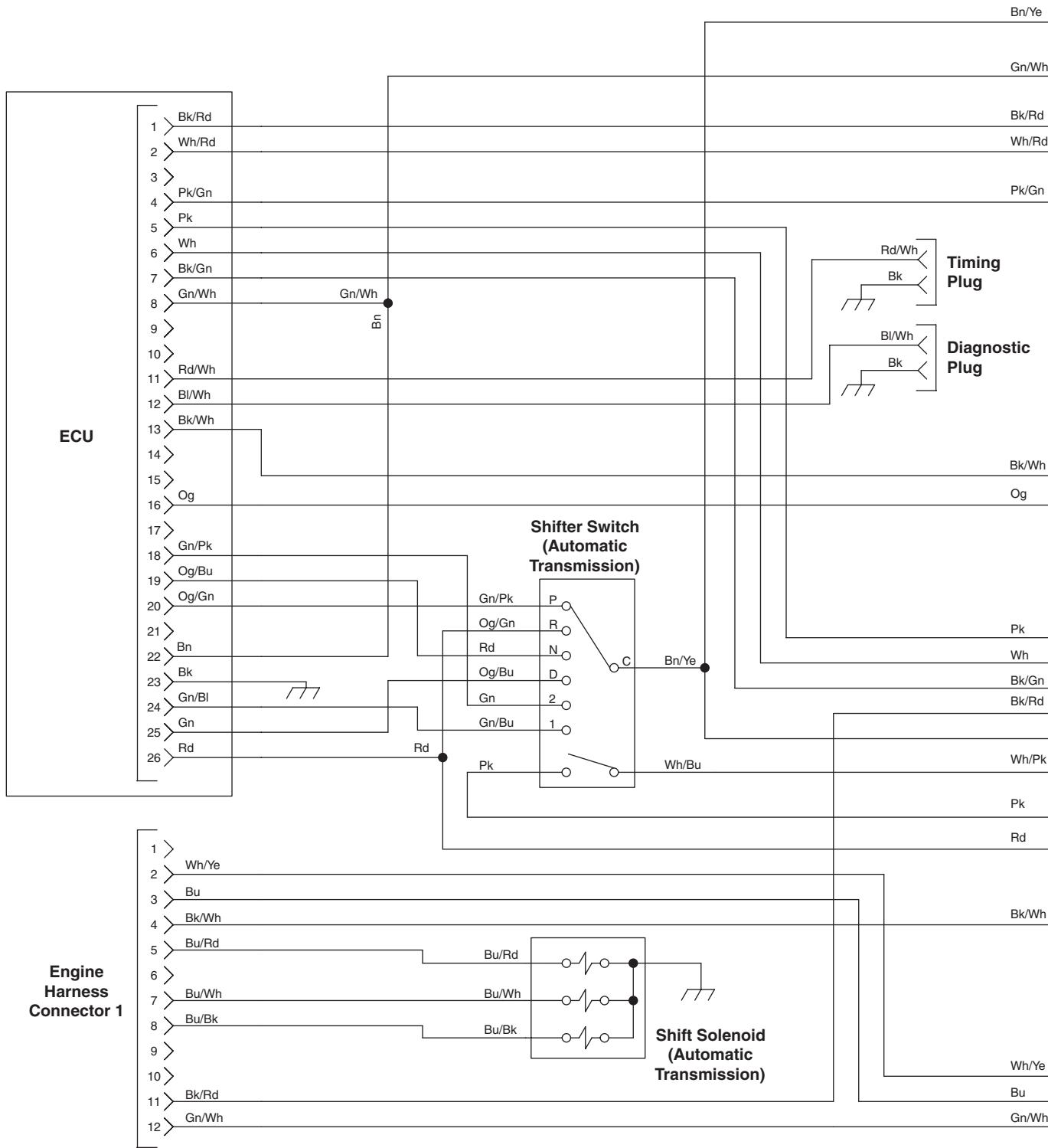
Item	Part No.	Qty.	Description	Serial Numbers/Notes
	601572	1	Engine Harness	
1	825877	2	• Connector, Six Female Terminal	
	825748	AR	• Terminal, 1/4" Fem. 14-16 Gauge	Single Wire
	825878	AR	• Terminal, 1/4" Fem. 10 Gauge	Two Wire
2	829630	1	• Connector, Four Male Terminal	
	825961	AR	• Terminal, 1/4" Male 10 Gauge	Two Wire
3	884398	3	• Diode Connector Assembly	
4	826005	6	• Connector, Two Female Terminal	
	825748	AR	• Terminal, 1/4" Fem. 14-16 Gauge	Single Wire
	825878	AR	• Terminal, 1/4" Fem. 10 Gauge	Two Wire
5	843168	1	• Connector, Relay	
	842966	AR	• Terminal, Female Relay	
6	843167	1	• Relay, 12V 15 Amp DPST	
7	4129717	2	• Plug, 2 Wire Deutsch	
	4129730	AR	• Socket, 16-18 Gauge Solid	
	4129733	AR	• Wedge, 2 Wire Deutsch	
	4129747	AR	• Gasket, 2 Wire Deutsch	
8	2700868	1	• Connector, 70 Amp Relay	
	842966	AR	• Terminal, Female Relay	
	2700869	AR	• Terminal, 3/8" Female Relay	
9	842959	1	• Connector, 2 Contact	
	833257	2	• Terminal, 3/32" Female	
	838463	2	• Seal, Wire	
10	826584	2	• Block, Single Fuse	
	825997	AR	• Fuse Clip, 1 Term., 14-16 Gauge	
	825998	AR	• Fuse Clip, 1 Term, 10 Gauge	
11	836536	1	• Fuse, 40 Amp	
12	4113261	1	• Fuse, 25 Amp	
13	2700867	1	Relay, 12V, 70 Amp SPST	
	601586	1	Fan Harness	
14	826006	1	• Connector, Two Male Terminal	
	825886	AR	• Terminal, 1/4" Male 14-16 Gauge	
15	826005	1	• Connector, Two Female Terminal	
	825748	AR	• Terminal, 1/4" Fem. 14-16 Gauge	
16	2700868	1	• Connector, 70 Amp Relay	
	842966	AR	• Terminal, Female Relay	
	N/S	AR	• Terminal, 3/8" Female Relay	
17	2700867	1	• Relay, 12V, 70 Amp SPST	
18	826584	2	• Block, Single Fuse	
	825997	AR	• Fuse Clip, 1 Term., 14-16 Gauge	
19	836536	1	• Fuse, 40 Amp	

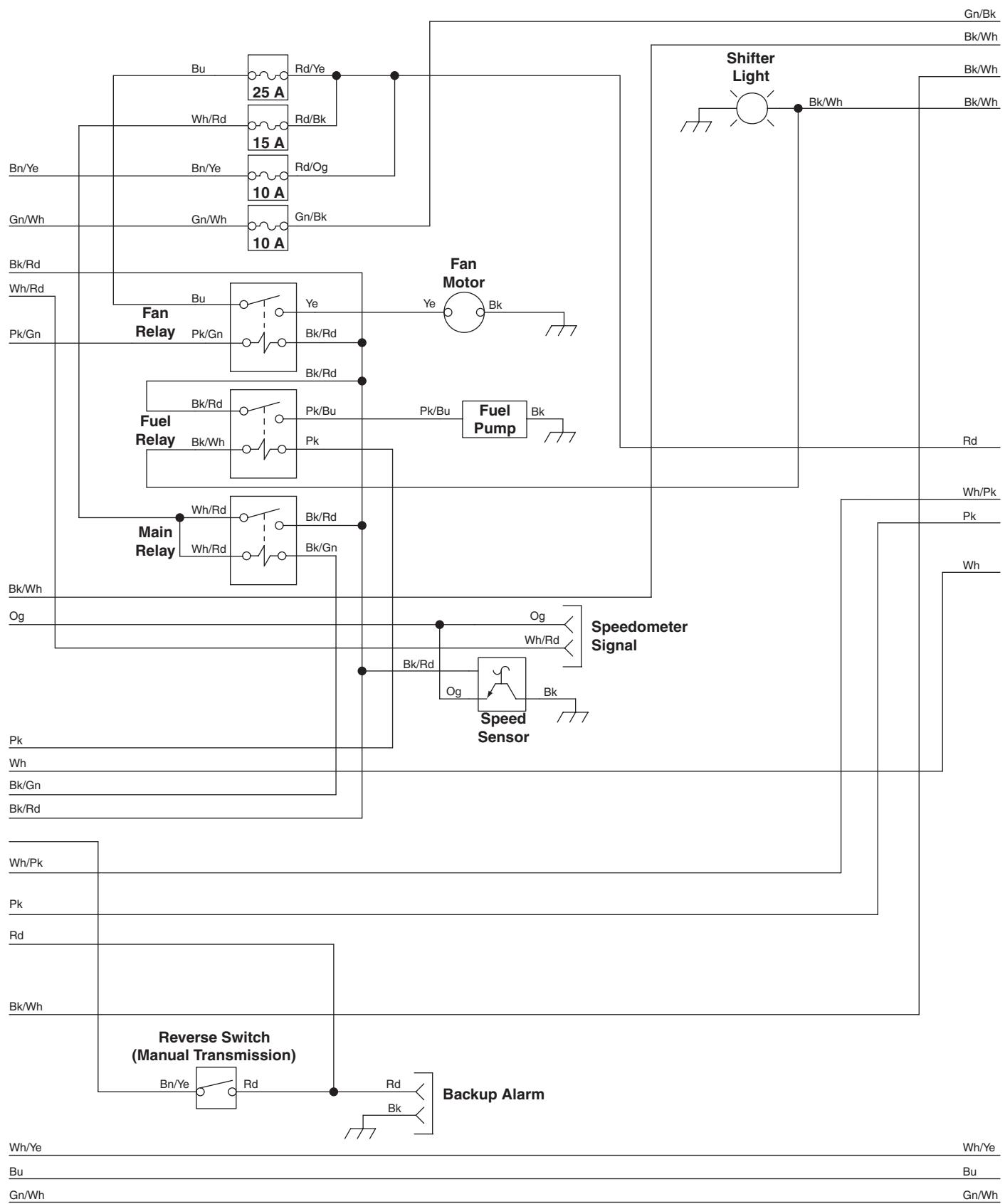
&gt; Change from previous revision

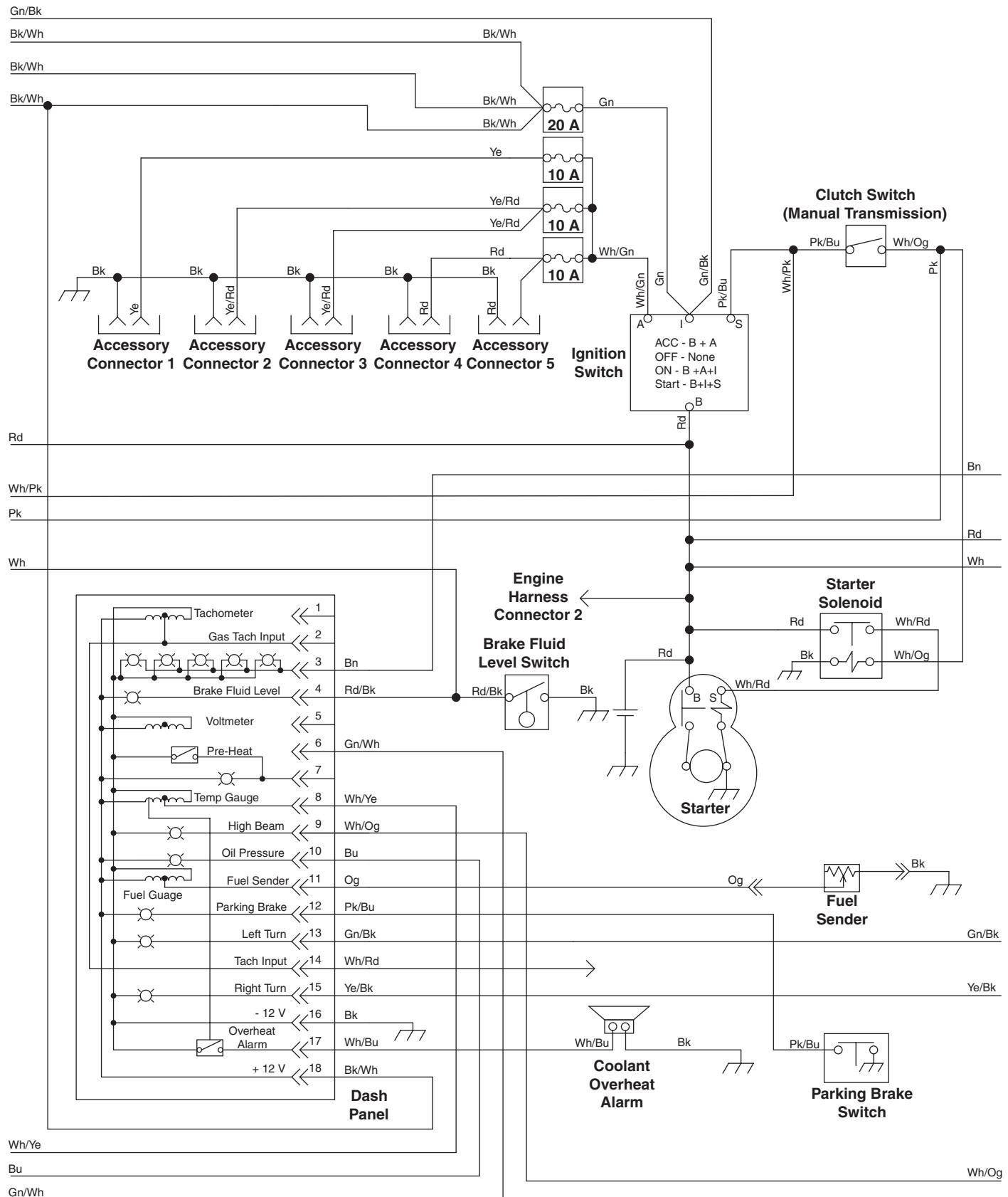
# TURF TRUCKSTER

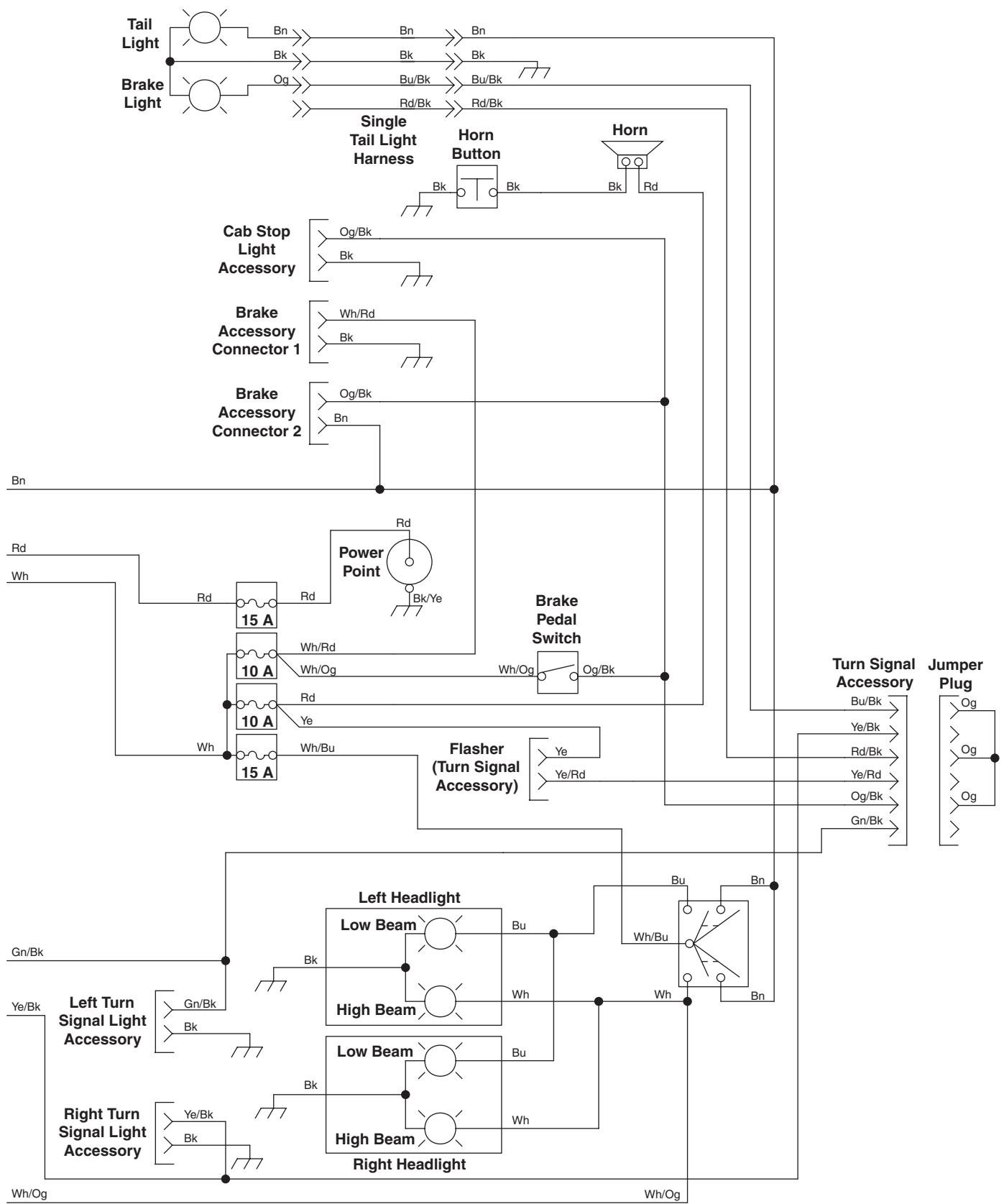
## 51.1 Gas Engine Electrical Schematic

Serial No. 898627 All  
Serial No. 898628 All  
Serial No. 84054 All

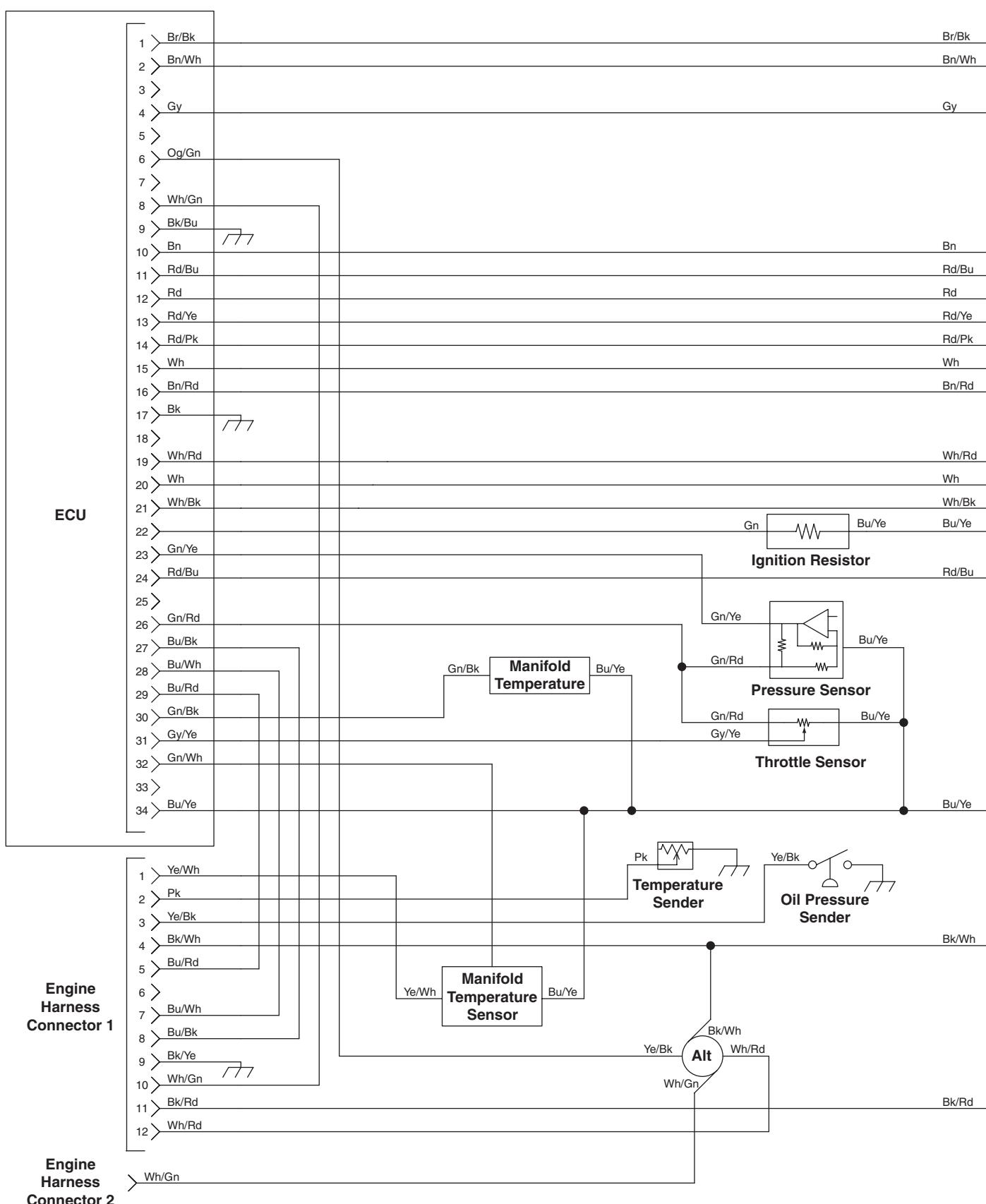


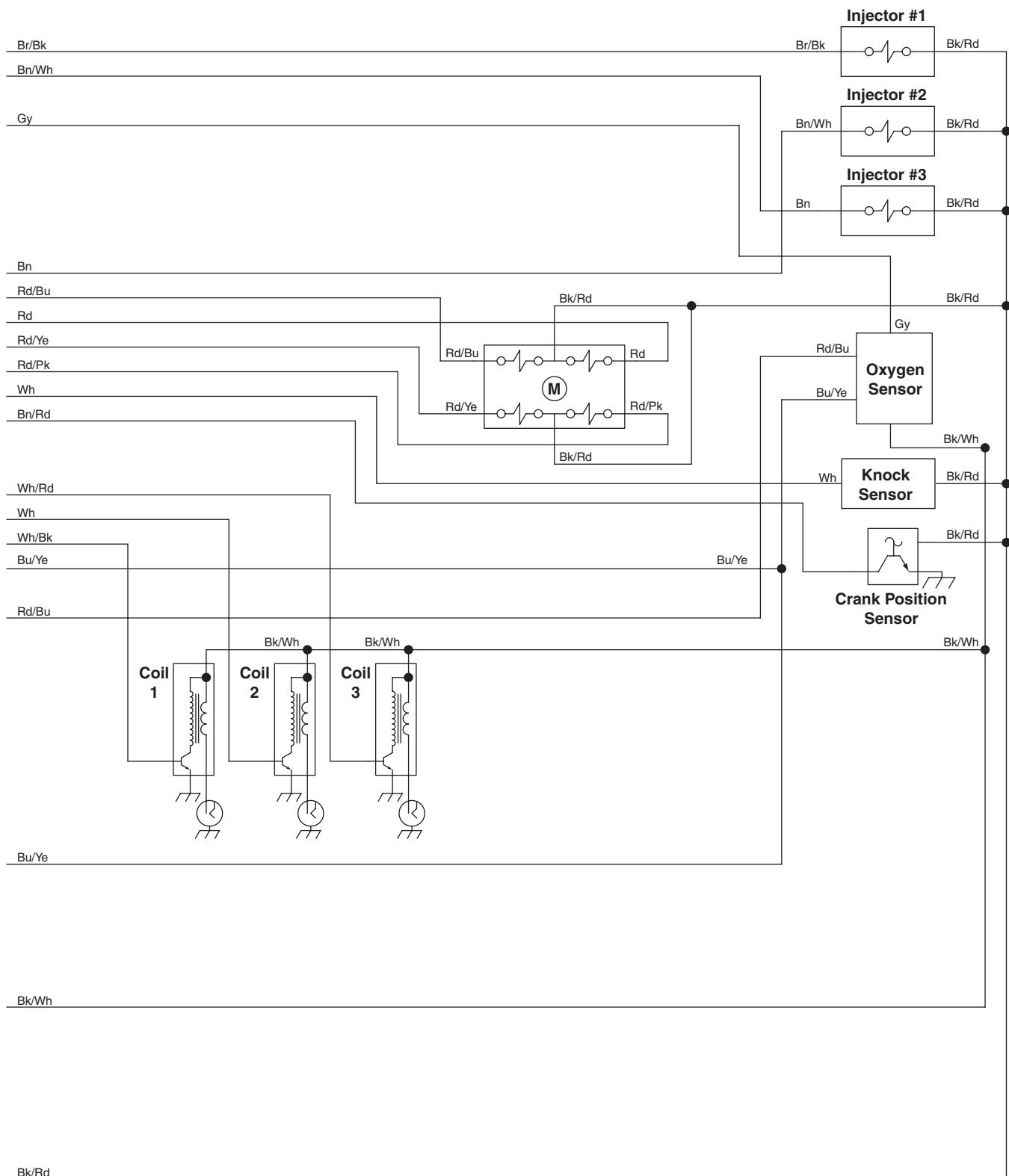






## 52.1 Gas Engine Schematic

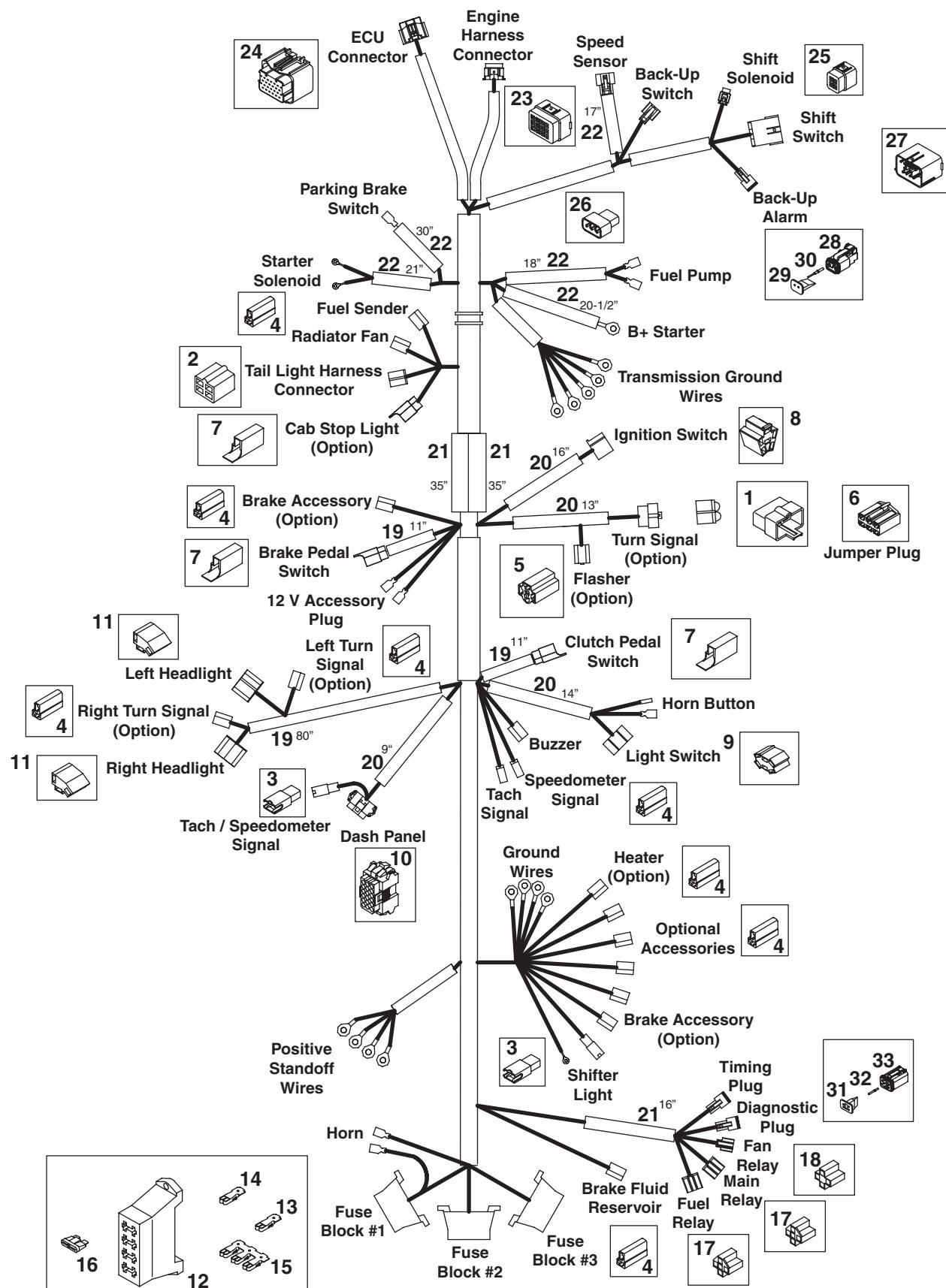




## 53.1 Gas Main Harness

Part Number 4115709

Serial No. All

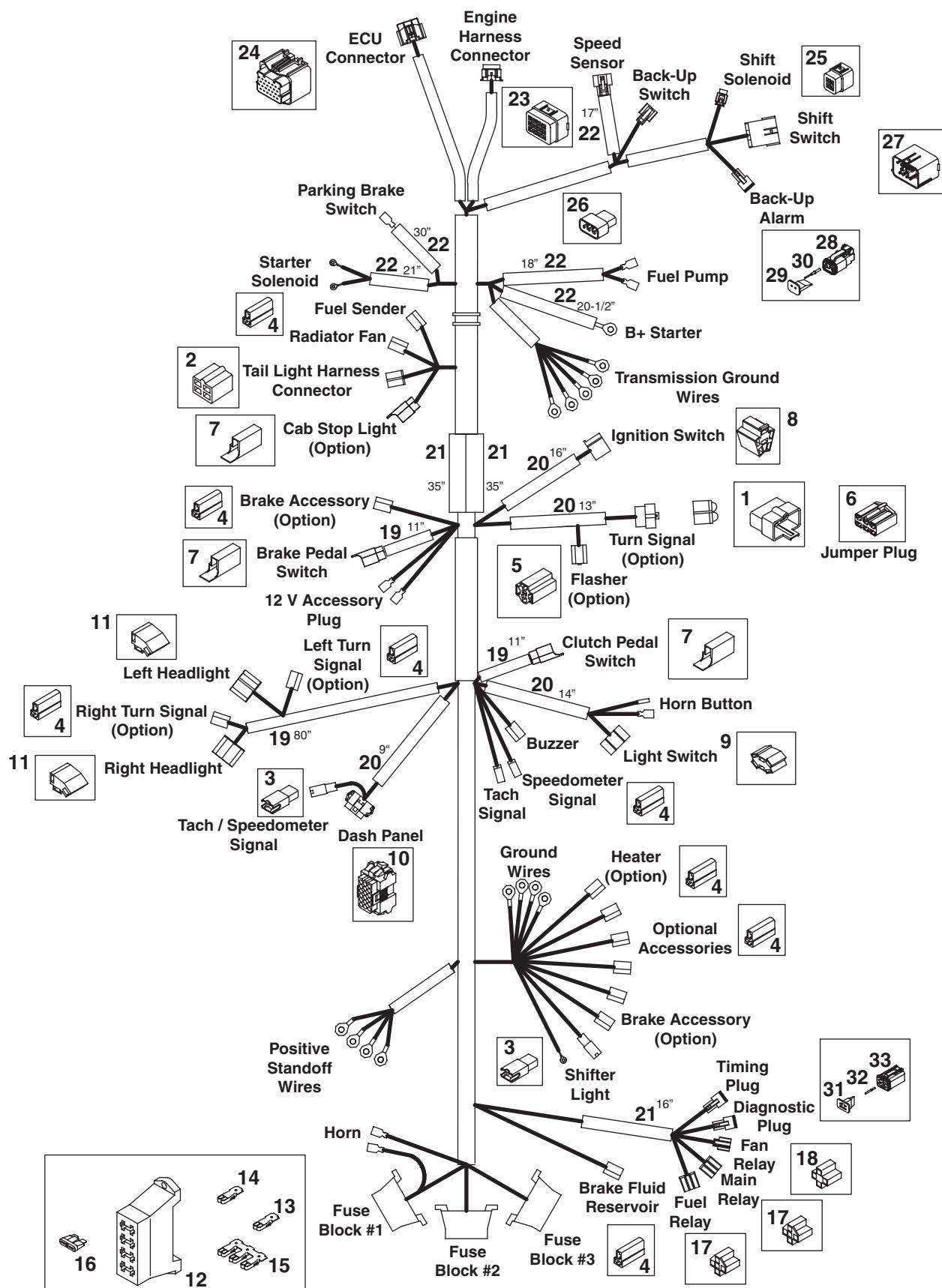


Item	Part No.	Qty.	Description	Serial Number / Notes
1	825973	1	Connector, Six Male Terminal	
	825886	AR	Terminal, 1/4" Male 14-16 Gauge	Single Wire
	825961	AR	Terminal, 1/4" Male 10 Gauge	Two Wire
2	829631	1	Connector, Four Female Terminal	
	825748	AR	Terminal, 1/4" Female 14-16 Gauge	Single Wire
	825878	AR	Terminal, 1/4" Female 10 Gauge	Two Wire
3	826726	2	Connector, One Female Terminal	
	825886	AR	Terminal, 1/4" Male 14-16 Gauge	
4	826005	12	Connector, Two Female Terminal	
	825748	AR	Terminal, 1/4" Female 14-16 Gauge	Single Wire
	825878	AR	Terminal, 1/4" Female 10 Gauge	Two Wire
5	825894	1	Connector, Flasher	
	825889	AR	Terminal, 5/16" Female 14-16 Gauge	
6	2700913	1	Jumper Plug, Taillight	
	825877	1	• Connector, Six Female Terminal	
	825748	AR	• Terminal, 1/4" Female 14 Gauge	Single Wire
	825878	AR	• Terminal, 1/4" Female 10 Gauge	Two Wire
7	826006	3	Connector, Two Male Terminal	
	825886	AR	Terminal, 1/4" Male 14-16 Gauge	
8	837296	1	Connector, Ignition Switch	
	825748	AR	Terminal, 1/4" Female 14-16 Gauge	Single Wire
	825878	AR	Terminal, 1/4" Female 10 Gauge	Two Wire
9	843598	1	Connector, Rocker Switch	
	825748	AR	Terminal, 1/4" Female 14-16 Gauge	Single Wire
	825878	AR	Terminal, 1/4" Female 10 Gauge	Two Wire
10	843550	1	Connector, Eighteen Terminal	
	843551	AR	Terminal	
11	837301	2	Connector, Headlight	
	825889	AR	Terminal, 5/16" Female 14-16 Gauge	One Wire
	828629	AR	Terminal, 5/16" Female 14-16 Gauge	Two Wire
12	825996	3	Fuse Holder	
13	825997	12	Fuse Clip, 1 Term., 14-16 Gauge	
14	825998	6	Fuse Clip, 1 Term, 10 Gauge	
15	825999	2	Fuse Clip, 3 Term. 14-16 Gauge	
16	836892	7	Fuse, 10 Amp	
16	842983	3	Fuse, 15 Amp	
16	826000	1	Fuse, 20 Amp	
16	4113261	1	Fuse, 25 Amp	
17	843168	2	Connector, 15 Amp Relay	
	842966	8	Terminal, Female Relay	
18	2700868	1	Connector, 70 Amp Relay	
	842966	2	Terminal, 1/4" Female Relay	
	2700869	2	Terminal, 3/8" Female Relay	
19	826190	AR	Tubing, 3/8" I.D. Black Convoluted	50 Foot Bulk
20	826191	AR	Tubing, 1/2" I.D. Black Convoluted	25 Foot Bulk

# TURF TRUCKSTER

## 53.1 Gas Main Harness (Continued)

Part Number 4115709



Item	Part No.	Qty.	Description	Serial Number / Notes
21	826192	AR	Tubing, 3/4" I.D. Black Convoluted	25 Foot Bulk
22	826193	AR	Tubing, 7/16" I.D. Green Convoluted	25 Foot Bulk
23	4116015	1	Connector, 12 Contact Male	
	833257	8	Terminal, Female	
	838463	8	Seal, Wire	
	2700933	4	Plug, Cavity	
24	845329	1	Connector, 26 Contact Male	
	2700852	1	Lock, 26 Contact	
	2700470	19	Terminal, Female	
	2700851	19	Seal, Wire	
	4118039	7	Plug, ECU Connector	
25	845330	1	Connector, 4 Contact Male	
	833257	4	Terminal, Female	
	838463	4	Seal, Wire	
26	845327	1	Connector, 3 Contact Female	
	2700380	3	Terminal	
	2700381	3	Seal, Wire	
27	845328	1	Connector, 9 Contact Female	
	2700385	2	Terminal	
	2700387	2	Seal, Wire	
	2700384	7	Terminal	
	2700386	7	Seal, Wire	
28	839917	1	Plug, 2 Wire Deutsch	
29	839921	1	Lock, 2 Wire Deustch	
30	524358	2	Terminal, 18-20 AWG Male Pin	
31	838768	2	Lock, 4 Wire Deutsch	
32	838769	4	Terminal, 18-20 AWG Socket	
33	838770	2	Plug, 4 Wire Deutsch	

# INDEX

---

00414-G5.....	91	111816.....	91	24821-09001.....	125	2700933 .....	143
009034880.....	73, 75	111817.....	91	25121-85051.....	125	2700993-G01 .....	107
01116-G01.....	89	111838.....	71	25211-85201.....	125	2701107.7 .....	99
01117-G01.....	77	111893.....	89	25221-83002.....	125	2701129 .....	89
01117-G02.....	77	111898.....	45, 86, 91	25221-85202.....	125	2701174 .....	63
01421-08303 .....	121	112050.....	39, 109	25411-85201.....	125	2701273 .....	55
01550-08163 .....	77	112840.....	91	25415-83000.....	125	2701274 .....	55
01550-08353 .....	53, 121	11311-67H00 .....	79	25420-85201.....	125	2701328 .....	55
01550-08553 .....	119	11311-67H20 .....	81	25451-85261.....	125	2701371 .....	55
06111-06003 .....	123	11391G4 .....	97	25520-85203.....	125	2701408 .....	113
06111-12004 .....	125	11391G7 .....	73, 77	25530-79501.....	125	2701430 .....	77
08310-00103 .....	77	11710-77100.....	77	25535-85412.....	125	2701465 .....	105, 107
09103-08131 .....	121	11741-85200.....	77, 119	25536-84200.....	125	2701502 .....	107
09103-08132 .....	77, 121	12005245, 86, 91, 95, 97,		25541-85201.....	125	2701510 .....	89
09103-08152 .....	121	.....	107	25545-85055.....	125	2701513 .....	75
09111-08035 .....	83	120166.....	83	25546-60C01 .....	125	2701639 .....	75
09128-06032 .....	121	120177.....	77, 83	25547-70D00 .....	125	2701693.7 .....	61
09128-10002 .....	125	130306380.....	95	25576-70D00 .....	125	2701697.7 .....	61
09135-08005 .....	125	130728.....	86, 89, 91	26121-85202.....	123	2701737.7 .....	51
09160-17035 .....	125	132520.....	107	26131-85201.....	121	2701850.7 .....	45
09162-08008 .....	125	148231.....	95, 97	2700143 .....	93	2701897 .....	97
09166-16014 .....	121	160410.....	91	2700144 .....	93	2701898 .....	97
09166-30007 .....	123	17680-50F70 .....	73	2700145 .....	93	2701899 .....	97
09168-10007 .....	125	18292G1 .....	97	2700166 .....	97	2701953 .....	125
09205-03019 .....	119	185086321.....	83	2700334 .....	89	2702012 .....	45
09205-05012 .....	125	2208175.....	95	2700335 .....	89	2702014 .....	45
09250-10006 .....	125	22100-85200.....	83	2700380 .....	143	2702146 .....	111
09261-03017 .....	125	2218140-01.....	63	2700381 .....	143	2702198 .....	39
09261-06003 .....	121	22400-85141.....	83	2700384 .....	143	2702199 .....	41
09262-28019 .....	121	23260-85203.....	119	2700385 .....	143	2702215 .....	51
09262-28020 .....	121	23265-85200.....	119	2700386 .....	143	2702217 .....	69
09262-30086 .....	123	23266-85002.....	53	2700387 .....	143	2702244 .....	49, 89
09263-30031 .....	123	24110-80410.....	123	2700453 .....	71	2702247 .....	69
09263-35015 .....	123	24121-85252.....	123	2700470 .....	143	2702257.7 .....	69
09280-11002 .....	119	24131-83002.....	121	2700493 .....	115	2702470 .....	79, 81, 121
09280-19001 .....	121	24211-83011.....	123	2700496 .....	55, 56	2702471 .....	121
09280-21014 .....	121	24220-60A01 .....	123	2700514 .....	113	2702475 .....	119
09282-08001 .....	121	24230-83001.....	123	2700515 .....	113	2702494 .....	125
09283-25088 .....	121	24400-83000.....	123	2700522 .....	89	2702534.7 .....	113
09284-17004 .....	125	24410-83000.....	123	2700525 .....	91	2702535.7 .....	113
09286-09001 .....	125	24420-83000.....	123	2700530 .....	113	2702547 .....	79
09300-14017 .....	119	24431-83001.....	123	2700531 .....	113	2702548 .....	79
09300-30003 .....	123	24432-83001.....	123	2700540 .....	89	2702559 .....	123
09380-28007 .....	121, 123	24436-83000.....	123	2700573 .....	71	2702561 .....	123
09390-62010 .....	121	24441-85F41 .....	123	2700792 .....	39	2702586 .....	121
09390-68002 .....	121	24442-81A20 .....	123	2700796 .....	47	2702659 .....	119, 121
09448-20007 .....	119	24471-60A00 .....	123	2700797 .....	47	2702662 .....	121
10386747, 51, 55, 56, 77,		24473-70D10 .....	123	2700800 .....	99	2702684 .....	119
.... 83, 86, 87, 89,		24551-83010.....	121	2700801 .....	99	2702686 .....	79, 81
93, . 95, 97, 111,		24560-83001.....	121	2700851 .....	143	2702687 .....	79
115		24671-83000.....	121	2700852 .....	143	2702688 .....	79, 81
111074.....	111, 115	24681-83000.....	123	2700859 .....	89	2702689 .....	79, 81
111758.....	111	24700-85200.....	121	2700867 .....	73, 107, 133	2702690 .....	79, 81, 121
111812.....	91	24741-83001.....	121	2700868 .....	133, 141	2702695 .....	55
111813.....	91	24770-85252.....	121	2700869 .....	133, 141	2702701 .....	81
111814.....	91	24780-83010.....	121	2700913 .....	141	2702702 .....	81

# INDEX

---

2702756	81	306463	39, 47	4115904	97	450410	39, 51
2702883	125	306488	39, 105, 107	4116015	143	450412	77
2702893	79	306506	91	4116017	107	45045241, 45, 49, 61, 73,	
2702906	81	306514	91	4116018	107	75, 97, 101, 103,	
2702996	55	306531	45	4116159	89	107	
2703002	53, 121	306560	101	4116284.8	93	45045341, 43, 47, 49, 51,	
2703081	69	306562	77, 83	4116941	107	... 53, 59, 61, 71,	
2703158	39	306799	71	4116997	75	73, ... 75, 77, 79,	
2703257.7	45	306825	67	4117153.7	59	81, ... 83, 95, 97,	
2703281	73	306829	111	4117352	89	99, ..... 105, 107	
2703294.7	61	306835	83	4117681	91	45045441, 47, 49, 51, 55,	
2703309	113	306836	77	4117900	79	... 59, 61, 73, 79,	
2703481	113	306839	65	4118027	79, 81	81, ..... 89	
2703581	123	306915	91	4118039	143	450455	43, 61, 67
2703683	86	306932	107	4118422	79, 81	450457	71
2703684	89	306981	77, 83, 89	4118423	79, 81	450510	53
2703707	55	306982	111	4119526	89	450541 39, 41, 43, 73, 75	
2703800.8	87	307776	115	4119634	53	450544	107
2703835.8	77	308008	67	4119678	91	450739	71
2703931.7	55	308089	47	4119866.8	87	45237845, 49, 61, 69, 73,	
2703951	55	30809041, 55, 73, 75, 89,		4119955	81	... 75, 97, 103, 107	
2703953	55	..... 91, 99		4120076	75	452381	89, 101
2703956.7	55	308091	55	4120079	75	45238841, 49, 51, 53, 73,	
2703964.7	55	309067	61, 97	4120096	81	... 75, 77, 83, 99,	
28391-85202	121	309488	41	4120097	81	105, ..... 107	
28825-G01	75, 77	311213	83	4120098	81	45238961, 77, 79, 81, 87,	
29165G01	45	311392	67	4121517.8	93	..... 99	
29431-85400	121	311396	63	4121525.8	93	452390	77, 83, 95
300646	73, 75, 99	311398	63	4129717	133	452391	49
300977	55	311763	55	4129730	133	452393	95
302030	56	312288	59	4129733	133	452394	83
302288	89, 91	314990013	87	4129747	133	452395	73, 75, 83
302944	67	316907	47	4138668	81	452396	47
303269	67	320107, 49, 71, 101, 103		4138963	79	45239841, 49, 51, 59, 61,	
303952	39	36072-G01	93	4139196	73	..... 69, 73, 75	
304632	47	36085G01	41	4139691	39	452399	59, 99
304636	67, 69, 113	36091-G01	43	4139806G01	59	452401	55, 77
305134	67	36092-G01	73, 75	4139806G02	59	452402	61
306320	89	36097-G01	43	4139806G03	59	452403	61
306322	111, 115	36106G01	65	4139924	61	452404	47
306325	77, 83, 89, 93, 105, ..... 107	36116G01	79, 81	4140269	43	452405	61, 79, 81
30632841, 45, 47, 49, 51, ..... 53		37610-80023	119	4140617	79, 81	452406	61, 73
30632841, 45, 47, 49, 51, ..... 53		38061A	39	4140618	79, 81	452408	67
306372	89	385174	69	4140994	107	452410	61
306375	47, 56, 89, 91	38541	39	4140995	107	452411	43
306388	47	4113018	97	4141037	123	452413	67
30639647, 55, 56, 73, 75, ..... 89, 91, 93		4113019	97	450010	89	452415	59
30639647, 55, 56, 73, 75, ..... 89, 91, 93		4113261	133, 141	450077	65	452424	51, 53
306397	55	4114221.8	93	450193	87, 93	452692	55, 69
306405	113	4114867	91	450324	105, 107	452695	45, 55
306416	83	4115000	91	450377	49, 53	460030	65
306419..39, 93, 105, 107		4115029.7	75	450378	87, 93	471221	65
306423	115	4115033	75	450382	65	48310	95, 97
306435	115	4115258	89	450393	65	515268	45
306450	93	4115400	75	450399	89	517226	111
306450	93	4115709	107	450400	39	521144	47

# INDEX

---

523085.....41	800177.....59, 73, 75	812009.....117	826193.....143
523768.....101	800198.....63	812325.....117	826284.....63
524358.....143	800221.....95, 97	812444.....86	826285.....63
524633.....45	800227.....91	812445.....51	826558.....47, 103
524643.....45	800263.....41	813850.....63, 67	826584.....133
548061.....63	800271.....45, 86	814079.....47	826590.....57, 95, 97
548079.....65	800279.....99	814474.....69	826726.....131, 141
548159.....39	800294.....63	814476.....111	827182.....49
548171.....47	800344.....39	815403.....69	827486.....99
548175.. 39, 55, 105, 107	800446.....49	815680.....93	827821.....45
548201.....117	800485.....67	816307.....55	828049.....45
548204.....115	800558.....91	816401.....41	828056.....47
548222.....119	800559.....117	816586.....67	828057.....47
548224.....65	800571.....77	817104.....45, 91	828231.....105, 107
548325.....91	800582.....45, 55, 56	817250.....69	828382.....39
548482.....63	800602.....63	817320.....103	828590.....71
548804.....83	800695.....117	817928.....69	828629.....131, 141
548827.....99	800717.....111	818395.....89	829044.....63
548849.....77	800718.....111	819923.....71	829099.....59
548910.....59	800737.....117	820889.....73, 75	829630.....131, 133
548911.....45, 59	800743.....113	821164.....55, 56, 86, 89	829631.....141
548937.....115	800789.....57	821893.....57, 83, 99, 103	829787.....95, 97
548952.....117	800861.....65	822049.....59	829800.....99
6.....141	800875.....97	822419.....47	829954.....95, 97
600981.....83	800908.....69, 113	822819.....47	829997.....95, 97
600985.....77	800909.....59, 63	823118.....47	830140.....89
600989.....77	800927.....89	823119.....103	830366.....45
600991.....73	80093039, 43, 47, 51, 59,	823225.....47	830425.....95, 97
600992.....73	.....71, 97, 99	823549.....39, 71	830784.....41, 45
600993.....83	800934.....39, 51, 107	823621.....63	830810.....103
600997.....83	800943....39, 45, 51, 71,	825264.....57, 97	830930.....51, 71
601572.....73	107	825358.....79, 81	831039.....95, 97
601585.....73	800944.....113	825500.....63	831099.....115
601586.....73, 133	800945.....65	825538.....47	831225.....105, 107
601587.....77	805387.....113	825624.....75, 95	831405.....67
601591.....73	806703.....49, 89	825748.....131, 133, 141	831586.....89
601592.....73	806714.....45, 51, 53	825866.....131, 133	831846.....73, 75
601595.....73	807332.....63	825877.....131, 133, 141	831888.....86
601596.....73	807366.....115	825878.....131, 133, 141	831889.....86
601937.....41	808060.....71	825884.....73	831890.....86
601939.....39	808088.....69	825886.....51, 131, 141	832033.....79, 81
601940G05.....39	809092.....71	825889.....141	832408.....103
603102.....91	809137.....51, 69	825894.....131, 141	832409.....103
604174.....55	809152.....49	825899.....131, 141	832414.....101, 103
7040.....51	809174.....77	825961.....131, 133, 141	832584.....109
7301.....97	809180.....63	825973.....131, 141	832798.....47
7332.....97	809231.....57, 95	825996.....131, 141	832900.....103
74765G01.....39	809254.....117	825997.....131, 133, 141	833056.....91
74767G01.....39	809265.....103	825998.....131, 133, 141	833101.....91
74793G01.....39	810152.....51, 53	825999.....131, 141	833102.....91
800021.....95, 97	810435.....51, 115	826000.....131, 141	833103.....91
800024.....89, 91	810437.....69, 115	826005.....131, 133, 141	833104.....91
800026.....59	810722.....89	826006.....51, 131, 133, 141	833257.....133, 143
800073.....83	811992.....117	826190.....141	833273.....53
800113.....99	811993.....117	826191.....141	833345.....91
800146.....73	812006.....117	826192.....143	833433.....75

# INDEX

---

833440	73, 75	838440	83	841982	87, 93	843767	71
833442	75	838463	133, 143	842010	53	843768	71
833512	73, 75	838539	113	842030	41	843778	55
833953	95, 97	838768	143	842033	67	843792	55
834005	95, 97	838769	143	842051	51	843857	75, 77
834036	95	838770	143	842103	51	843862	73
835101	101, 103	839213	47	842104	69	843866	91
835271	86, 89, 91	839328	71	842359	117	843876	63
835805	73, 75	839752	83	842360	117	843942	107
836206	101	839862	71	842553	83	843997	45
836420	117	839917	143	842740	56	844019	103
836421	117	839921	143	842773	55	844051	47
836422	117	839948	111	842774	55	844087	117
836426	113	840222	71	842785	86	844116	45
836429	117	840352	77, 79, 81	842870G01	61	844130	86, 91
836431	115	840436	41	842915	77, 79, 81	844148	65
836443	111	840452	69	842935	51, 53	844167	107
836536	133	840473	86	842959	133	844177	47
836657	115	840508	39	842961	77	844179	47
836658	115	840725	51, 53	842966	133, 141	844198	77
836662	115	840726	51, 53	842983	131, 141	844202	53
836675	111	840754	73, 75	842996	83	844223	45
836676	111	840857	99	843013	89	844224	45
836677	111	840877	101, 103	843021	51	844228	119
836678	111	841167	65	843022	51	844268	83
836680	111	841230	75	843158	49	844270	83
836681	111	841255	67	843167	107, 133	844271	83
836682	111	841264	45	843168	133, 141	844272	83
836685	111	841336	67	843238	63	844274	86
836686	111	841404	67	843296	75	844293	39
836687	111	841428	39	843298	95, 97	844391	73
836688	111	841429	65	843323	77	844564	101
836689	111	841430	69, 113	843343	95, 97	844565	101
836690	111	841434	63	843355	47	844566	101
836691	111	841477G01	39	843356	49	844571	101
836692	111	841630	65	843359	49	844582	47
836693	111, 117	841637	39	843418	69	844583	101
836694	111, 113	841663	45	843537	91	844584	101, 103
836695	113	841715	39	843550	131, 141	844590	101
836841	115	841737	65	843551	131, 141	844598	103
836852	95, 97, 115	841738	65	843561	45	844600	101
836892	131, 141	841753	39	843562	45	844601	99
836959	115	841799	43	843563	45	844611	53
837020	117	841804	41	843568	61	844627	101
837043	49	841837	109	843581	45	844628	101
837198	117	841838	109	843598	131, 141	844630	101
837270	99	841839	69	843607	45	844647G01	61
837295	45	841841	69	843614	55	844652	101
837296	131, 141	841842	69, 109	843679	55	844729	99
837299	45	841844	109	843685	55	844813	113
837300	45	841885	77	843724	55	844937	101
837301	131, 141	841892	103	843726	95, 97	844951	117
837303	39	841895	105, 107	843754	121	844952	117
838154	95	841913	39	843758	47	844953	117
838295.8	87, 93	841966	83	843759	47	844956	117
838340	57	841969	95, 97	843760	83	844973	101

# INDEX

---

844988.....	43	893235.7.....	61	894638.....	95
845034.....	117	893235G.....	61	894645.....	83
845038.....	41	893266.....	65	894675.....	99
845133.....	49	893322.....	41	894691.....	101
845134.....	49	893344.....	71	894696.....	47
845135.7.....	59	893375-G05.....	41	894701.....	101
845185.....	47	893388.....	75	894702.....	101
845206.7.....	61	893487.....	59	894886.....	117
845223.....	119	893488.....	59	894930.....	69, 113
845224.....	75	893491.....	109, 113	894931.....	69, 113
845231.....	41	893519.....	113	894932.....	69, 113
845232.....	41	893525.....	61	894933.....	69, 113
845234.....	41	893539.....	99	894934.....	69, 113
845327.....	143	893541.....	41	894935.....	69, 113
845328.....	143	893554.....	73, 75	894936.....	69, 113
845329.....	143	893555.....	95, 97	894998.7.....	61
845330.....	143	893571.....	71	895013.....	53
845345.7.....	56	893581.....	61, 113	895113.....	51
845356.....	113	893582.....	61, 113		
882993.....	103	893583.....	109		
883236.....	103	893585.....	69		
884398.....	133	893586.....	69		
884513.....	105, 107	893602.....	59		
884574.....	103	893613.....	63		
885249.....	101	893632.....	43		
886001.....	103	893633.....	83		
886270.....	47	893862.....	63		
886425.....	105, 107	893966.....	55		
886735.....	59, 63	894030.....	39		
887017.....	101	894159.....	45		
888042.....	101	894167.....	51		
888549.....	75	894179.....	55		
889049.....	75	894201.....	95, 97		
889050.....	73, 75	894232.....	59		
889106.....	49	894272.....	63		
889681.....	67	894308.....	51, 53		
889682.....	67	894313.....	59		
889780.....	115	894317.....	49		
889870.....	111	894348.....	73		
889925.....	115	894432.....	63		
890000.....	107	894433.....	63		
891089.....	117	894434.....	91		
891829.....	109, 111	894435.....	91		
892164.....	56	894456.....	51		
892228.....	71	894471.....	91		
892486.....	71	894508.....	56		
892811.....	105, 107	894509.....	63, 109, 113		
892921.....	51	894519.....	117		
892933.....	53	894573.....	65		
893145.....	61	894574.....	65		
893145.7.....	61	894580.....	77		
893182.....	77	894584.....	56		
893199.7.....	61	894590.....	75		
893199-G02.....	61	894591.....	86		
893233.....	65	894596.....	105, 107		
893234.....	65	894635.....	67		

# ***INDEX***

---

## **World Class Quality, Performance And Support**

Equipment from Jacobsen is built to exacting standards ensured by ISO 9001 and ISO 14001 registration at all of our manufacturing locations.

A worldwide dealer network and factory trained technicians backed by Textron Parts Xpress provide reliable, high-quality product support.



**JACOBSEN**

A Textron Company

---

**BOB CAT BUNTON CUSHMAN EZ GO JACOBSEN RANSOMES RYAN STEINER**

Textron Golf, Turf & Specialty Products  
PO Box 7708, Charlotte, NC 28241-7708  
[www.ttcsp.com](http://www.ttcsp.com)